

MAHARISHI UNIVERSITY OF MANAGEMENT



CATALOG

2012–2013

Undergraduate and Graduate Programs

CONSCIOUSNESS-BASED EDUCATION

FAIRFIELD, IOWA

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Message from the Founder

MAHARISHI MAHESH YOGI

“If we look into the process of gaining knowledge we find there are two sides to knowledge: the object of knowledge, that which we seek to know, and the subject of knowledge, the knower. What the present system of education provides is knowledge of the object; what it misses is knowledge of the subject, knowledge of the knower in the knower’s infinite capacity. When the knower is ignorant about the Self, the whole structure of knowledge is as if baseless.

“Education at Maharishi University of Management enlivens in every student’s awareness the common basis of knower and known, the Unified Field of Natural Law. Every part of knowledge is connected with the whole discipline, and the whole discipline with the Unified Field of Natural Law, which students experience directly as the deepest level of their own intelligence during the practice of my Transcendental Meditation® program.

“As a result of this educational approach, students grow in the awareness that all streams of knowledge are but modes of their own intelligence. They come to feel at home with everyone and everything. Their creative genius blossoms with increasing confidence and self-sufficiency. They cease to violate Natural Law, and grow in the ability to accomplish anything and spontaneously to think and act free from mistakes — the fruit of all knowledge.”

Message from the President

DR. BEVAN MORRIS

Maharishi University of Management was founded by His Holiness Maharishi Mahesh Yogi in 1971 to make education complete, so that every student enjoys great success and fulfillment in life. By integrating professional excellence and development of higher consciousness, education at the University unfolds the creative genius of its students, and prepares them to be leaders of their nations, competent to create a prosperous, progressive, and peaceful world.

Our unique Consciousness-BasedSM system of education has also created a high quality of life on campus, full of happiness, harmony, and enthusiasm for knowledge, and free of the problems and stress that trouble other universities throughout the world.

We are fortunate to have highly qualified faculty and bright, focused students who have come from more than 130 countries and almost every state of the United States. Our faculty achievements in research, publication, and grants, and the achievements of graduates in business and professional careers are outstanding; their positive impact on society is remarkable.

In addition, our model school, Maharishi School of the Age of Enlightenment, is one of the world's outstanding primary and secondary schools, as measured both by the students' academic achievements and by their happiness and highly enlightened consciousness and behavior.

Most important, since 1980 the University through its Golden Domes has continually created coherence in the collective consciousness of the United States, generating waves of positivity, harmony, and peace for the whole nation and the world.

As president of this University, I can only be proud of the dedicated, brilliant, and highly idealistic individuals who have made all these achievements possible. Throughout all the golden times ahead for humanity, Maharishi University of Management will always be the place to which students from every nation can come to rise to leadership of the world enjoying Heaven on Earth.

We look forward to welcoming you at Maharishi University of Management. It is a University worthy of the great name it bears, the name of its founder, Maharishi.

INTRODUCTION TO THE UNIVERSITY

THE MISSION OF THE UNIVERSITY

Maharishi University of Management was founded in 1971 by Maharishi Mahesh Yogi to fulfill the highest ideals of education. Foremost among these ideals is developing the full potential of consciousness in every student — helping students develop the ability to think and act in accord with natural law and to live a fulfilled and successful lives. This fulfills the long-sought goal of education: to produce fully developed individuals, citizens who can fulfill their own aspirations while promoting all good in society.

The University has pioneered a unique system of higher education, Consciousness-Based education, that systematically cultures a student's full creative intelligence, the basis of learning.

Consciousness-Based education gives traditional academic study a proper foundation: complete knowledge of consciousness coupled with simple, natural, scientifically validated technologies for developing consciousness. These technologies are the Transcendental Meditation and TM-Sidhi® programs, including Yogic Flying®.

This integrated approach develops students' ability to manage their lives successfully, to grow steadily in health, happiness, and wisdom, and to achieve professional success and personal fulfillment.

Our unique educational programs are designed to fulfill a commitment to four broad areas of responsibility:

- Holistic development of students — cultivation of consciousness, mind, body, and behavior
- Academic excellence — training at the forefront of knowledge in each discipline and in the ability to think critically and act effectively and ethically
- Scholarship that expands the domains of knowledge, expressed in all four areas of scholarship — discovery, teaching and learning, integration, and application.
- Improved quality of life for the individual, the nation, and the world.

PURPOSES AND OUTCOMES

We meet our goals of developing educational excellence and improving the quality of life principally by helping students achieve specific outcomes during their academic programs. Three of these outcomes are the basis of institutional assessment.

Self-development

Development of consciousness means developing the innermost nature of the individual. The University's program of education systematically develops students' intelligence, nourishing and unfolding all aspects of life simultaneously — mind, body, behavior, and environment. The individual grows in personal fulfillment and professional success and brings increasing fulfillment to society.

The outcomes of developing creative intelligence that the University expects of its students over the course of their academic careers include increased intelligence and creativity; improved health (mental, physical, and social); increased field independence and moral maturity; increased problem-solving ability, improved speaking and writing ability; greater self-actualization, self-esteem, personal identity, emotional health, and ego development; increased neurophysiological integration; and the experience of greater inner wakefulness.

Ability to integrate new knowledge effectively in any field and profession

Our unique approach to education enables students to feel increasingly comfortable with all fields of knowledge — to recognize the interconnections among fields of knowledge and the connection between knowledge and themselves. We also expect that all students will acquire intellectual skills and capacities; understand multiple modes of inquiry and approaches to knowledge; and develop societal, civic, and global knowledge.

Scholarship and service

In addition to the educational outcomes cited above, we will develop new knowledge through research and will disseminate that knowledge through publication of scholarly works. In disseminating knowledge, we will also assist other educational organizations, nationally and internationally, whose purposes are consistent with our mission. The primary responsibility for scholarship and service lies with our faculty. Their progress is assessed in terms of their contributions to peer-reviewed publications, to our own publications, and to the development of curricula and instructional materials.

ABOUT THE UNIVERSITY

Maharishi University of Management is accredited by The Higher Learning Commission and is a member of the North Central Association of Colleges and Schools (www.ncacihe.org • 312-263-0456), the oldest and largest accrediting organization in the U.S.

In addition, the University, through the Department of Business Administration, has the following degree programs accredited by the International Assembly for Collegiate Business Education (P.O. Box 25217, Overland Park, KS 66225, (913) 383-6205): Ph.D. in Management, Master of Business Administration, and Bachelor of Arts in Management.

The University is also a member of the Iowa Association of Independent Colleges and Universities (www.ncacihe.org • 515-282-3175).

Academic programs include Ph.D., master's, and bachelor's programs in a range of disciplines, including Ph.D. programs in Management and Maharishi Vedic ScienceSM. Students come from almost every state and more than 130 countries around the world, representing nearly every culture, race, and religion. The student body is a world family, living in peace and harmony, excited about knowledge, openhearted and friendly, and dedicated to making the world a better place.

The faculty includes internationally recognized scholars and researchers with degrees from such universities as Oxford, Harvard, Stanford, Princeton, and Yale.

Graduates are successful in careers in business, education, the arts, and the sciences. Many have founded their own companies or have been hired by leading corporations such as American Express, AT&T, Bell Labs, Apple Computer, Citibank, Ford, Hewlett-Packard, IBM, Motorola, and Xerox.

The Maharishi University of Management campus is located in Fairfield, Iowa, 50 miles west of the Mississippi River in the central U.S. The 262-acre campus, with 1.2 million square feet of teaching, research, recreational, and living space, is situated on gently rolling hills.

Maharishi University of Management is respected for its excellence in education, its healthy and harmonious environment, and its high quality of life. It is unique in adding to traditional education systematic programs to develop the full potential of the student. Our students make rapid progress, not only in academic achievement, but also in developing their creativity, intelligence, and good health.

ACADEMIC PROGRAMS

GENERAL EDUCATION

Maharishi University of Management is dedicated to education that develops the whole person. Our approach to general education shares the emphasis on distribution requirements and mastery of basic competencies found at other institutions. To these we add a program that directly develops the students' creative intelligence from within. Our program also emphasizes development of health and fitness, enlightened attitudes, and progressive behavior.

INTRODUCTION

For all students to graduate having mastered our general education goals and objectives, these educational outcomes must be addressed and reinforced throughout the curriculum. We have therefore created a Center for Educational Excellence that works with the individual faculty and departments to implement our general education goals and objectives in all programs and courses. This Center also oversees an assessment program that continuously monitors the progress toward achieving these goals and outcomes.

As part of the general education program, classes incorporate elements that develop

- Writing, speaking, and communication skills
- Reading, listening, and information gathering skills
- Group and independent research and work skills
- Proficiency with new technology
- Effective thinking skills
- Mathematical and scientific reasoning skills, as appropriate
- Creative imagination and problem-solving skills
- Aesthetic sensibility and experience in the arts, as appropriate
- Self-assessment skills.

All classes are organized around universal principles of Maharishi Vedic Science. In addition to the specific information and knowledge being studied in the modern disciplines, classes also develop the following understandings, as appropriate:

- Understanding of the quantum mechanical nature of reality

- Understanding the unity of all knowledge, its common source in the Unified Field of Natural Law, and its identity with the student's own Self
- Understanding the universality of the Vedic Science model of human development as it has expressed itself in diverse world civilizations
- Understanding the mechanics, principles, practical technologies, and evidence that support the development of higher states of consciousness and success in life.

SPECIAL FEATURES

- **Development of Consciousness** courses, which include the required twice-daily practice of the Transcendental Meditation program or the Transcendental Meditation and TM-Sidhi programs, as well as supporting programs. These are taken by all students throughout their education.
- **Required general education courses**, which include courses in Maharishi Vedic Science, human physiology, physics, math, and writing.
- **Distribution requirements** in the fine arts, humanities, applied social sciences, and mathematics.
- **An exercise program** in which students are tested for their fitness at the start of each semester, create their own daily exercise regimen based on fitness goals for the current semester, and then are retested for progress on these goals at the end of the semester.
- **A health education program** that includes a required two-credit course that introduces students to the principles of proper rest, nutrition, and time-management.
- **The Rotating University program**, our study abroad option that complements our global mission by offering students the opportunity to study in foreign countries. Courses have been taught in Greece, Australia, New Zealand, Switzerland, Italy, South Africa, and India. The purpose of the program is to give students the experience of other cultures in some of the world's most beautiful locations.
- **A career development and job placement seminar** that all undergraduate students take in their third or fourth year.
- **Forest Academies**, the first two weeks of each semester, which provide opportunities for more extended practice of the Transcendental Meditation technique, and for those qualified, the TM-Sidhi program. The Forest Academies also provide the opportunity for exploring the application of Maharishi Vedic Science to areas ranging from the arts to the sciences.
- **A Senior Capstone Forest Academy** during which graduating students are assessed for general education outcomes and reflect on the growth they have experienced in their years at Maharishi University of Management.

- **Separation of courses by gender** in a few large courses.

The specific credit requirements for all these programs are listed in the Academic Policies section of the Catalog.

General Education Courses For Undergraduates

The undergraduate general education courses at Maharishi University of Management provide a unique vision, a completely original angle, on how to approach and succeed in life. We ground our curriculum in a vision of human potential that includes higher states of consciousness and in an understanding of the fundamental unity of life. Our undergraduate program provides not only intellectual understanding of this new vision but also technologies for realizing this vision. These two together, intellectual understanding and the experience of personal growth, lead to a most fulfilling and productive life.

Besides other course work, students who are enrolled in the undergraduate program receive instruction in Maharishi Self-PulseSM assessment, or Maharishi *Nadi Vigyan*. This simple and profound technology from Maharishi Consciousness-Based Health CareSM allows the individual to accurately assess the level of balance of the whole physiology. The pulse contains the level of functioning of the three fundamental principles of intelligence governing the physiology: the principle of movement and communication; the principle of transformation and metabolism; and the principle of structure and cohesion. The goal is for the students to be able to measure the basic level of balance, which can then guide their dietary choices and daily routine to maintain balance and vitality.

Critical and Creative Thinking Seminars

Another special feature of the general education at the University is an emphasis on clear thinking. If thinking is the basis of action, clearer thinking leads to better actions — actions more likely to fulfill one's desires. Educators use the adjectives critical and creative to define clear thinking:

- *Critical thinking* refers to the habit of analyzing reasons given for a conclusion, including evaluating evidence in its favor. It also refers to an attitude of being open-minded and fair in examining arguments you don't agree with.
- *Creative thinking* refers to the ability to envision alternate explanations for conclusions, so that all sides of an argument can be examined. It also applies to the ability to come up with unique solutions to problems — solutions that may involve, for example, lateral thinking.

Developing creative and critical thinking abilities helps students during their time as a student and leads to greater success after they graduate.

Therefore, an important part of the general education curriculum at Maharishi University of Management is a two-course sequence that all entering students take to promote the habit and skills associated with deep thinking.

1. ***The Science and Technology of Consciousness (STC) course*** — This is the first course every new undergraduate student takes at the University. In this course, students learn and practice basic critical thinking skills.
2. **Critical and Creative Thinking seminars** — Students then select one of these seminars as their next class. Most of the undergraduate majors offer one of these courses, which may vary from year to year. Students will focus on key issues or topics in the field — and learn the vocabulary and develop the skills associated with deep thinking in that field.

The following Critical and Creative Thinking seminars will be offered for the Fall, 2012 entry:

Program	Course
Education	Learning Strategies for a Globalizing World (ED 110)
Fine Arts	Spiritual Quest in Media, Myth, and Myself: The Hero's Journey as the Development of Consciousness (FA 204)
Literature and Creative Writing	Literature and Enlightenment: Spirituality in Western Thought (LIT 220)
Mathematics Creative	The mathematics of infinity: From small to super-large (MATH 200)
Media & Communications	Speech, Persuasion, and New Media (MC 210)
Management	Seminar in current topics in economics: Doing well by doing good (MGT 220)
Creative Musical Arts	American Roots Music (MUS 223)
Sustainable Living	Understanding and advocating for sustainability: The individual as the unit of sustainability (SL-G110)

The following Critical and Creative Thinking seminars will be offered for the Spring, 2013 entry:

Program	Course
Computer Science	Problem Solving with Computational Thinking: Using the Field of all Possibilities as The Source for All Solutions (CS 105)
Education	Learning Strategies for a Globalizing World (ED 110)
Fine Arts	Spiritual Quest in Media, Myth, and Myself: The Hero's Journey as the Development of Consciousness (FA 204)
Management	Seminar in current topics in economics: Doing well by doing good (MGT 220)
Creative Musical Arts	The Power of Sound: Ultimate Quest of Both Artist and Scientist (MUS 217)
Maharishi Vedic Science	Science and subjectivity: Critiques of science as a purely objective approach to knowledge (MVS 150)
Sustainable Living	Understanding and advocating for sustainability: The individual as the unit of sustainability (SL-G110)

GENERAL EDUCATION GRADUATION REQUIREMENTS

The general education program offers students the opportunity to become familiar with a range of disciplines in keeping with the mission of a liberal arts education. The courses range from learning about the profound discoveries of modern theoretical physics to learning about the nature of the brain and its basis in consciousness. Also included are foundational courses in areas such as mathematics and writing.

Required courses in the general education program are:

- MVS 100 or ED 101 The *Transcendental Meditation* Program
- STC 108 or 109 Science and Technology of Consciousness (*These are the first two courses taken at the University and are prerequisite for all other courses.*)
- A course from the Critical and Creative Thinking Seminars (described above) immediately after the required STC course
- PHYS 110 Foundations of Physics and Cosmology
- PH 101 Physiology Is Consciousness

- WTG 191 College Composition 1 (*may be waived based on the results of a diagnostic assessment*)
- WTG 192 College Composition 2 (*Students may petition to waive based on transfer credits.*)
- FOR 103 Health-Related Fitness (not repeatable)
- MVS 202 Higher States of Consciousness (4 credits)
- MGT 346 Career Strategies (2 credits) (taken in the last year)
- MVS 475 Senior Capstone (2 credits) (taken in the final semester)

The distribution courses:

4 credits from Fine Arts

4 credits from Humanities

4 credits from Applied Social Sciences

4 credits from Mathematics

Specific courses that may be used to satisfy these distribution requirements are listed in the “Academic Policies” section under the requirements for the bachelor’s degree. Visit the departmental sections of the catalog to learn more information about each of the distribution courses. Course descriptions for the required courses are listed in their respective sections. In regard to the distribution requirements in the humanities, in addition to the courses offered that are listed in their respective sections of the catalog, a selection of courses specific to the humanities are also available. These courses are described below.

Humanities Courses

HUM 231 Great Civilizations: Fulfilling the Ancient Quest for Heaven on Earth as Sought by Vedic, Chinese, Indian, Middle Eastern, African, Native American and Western Cultures

Students explore the most inspiring creations of civilization highlighting humanity’s quest for an ideal society. The course begins with the venerable Vedic civilization, continues with extraordinary videotapes, slide lectures, and interviews on many other cultures, and concludes by examining the possibilities for creating an ideal society today. By familiarizing students with many cultures in the light of their own consciousness, this course nurtures global citizens of the twenty-first century, at home in the world family. Topics include: Western and Vedic views of history, research on lost or forgotten ancient civilizations, and cultural history from prehistoric times to the present day. Students have the opportunity to do research on a topic of their choice. No textbook fees. (4 credits)

HUM 232 Discovering South Africa: The Land and Its People

This Rotating University course introduces the history, culture, and politics of South Africa, as well as the spectacular wildlife of the African bush. Students travel as a group from Johannesburg to Drakensberg, Durban, Cape Town, and back to Johannesburg. In addition they spend ten days altogether studying the wildlife in Ezemvelo, a nature preserve, and Kruger park, a “big game” reserve. All students prepare multiple presentations on South African languages, history, culture, and other topics. (variable credits)

HUM 234 World Civilizations: Fulfilling the Ancient Quest for Heaven on Earth as Sought by Vedic, Chinese, Indian, Middle Eastern, African, and Native American Cultures

Students explore the most inspiring creations of civilization highlighting humanity’s quest for an ideal society. The course begins with the venerable Vedic civilization, and continues with extraordinary videotapes, slide lectures, and interviews on many other cultures. By familiarizing students with many cultures in the light of their own consciousness, this course nurtures global citizens of the twenty-first century, at home in the world family. Topics include: Western and Vedic views of history, research on lost or forgotten ancient civilizations, cultural history from prehistoric times to the present day, and the impact of globalization on modern world cultures. Field trip. No textbook or field trip fees. (2 credits)

HUM 235 European and American Civilizations: The Search for an Integrated Individual and an Ideal Society

Students explore the unique contributions to world culture made by European and American civilizations, highlighting individualism, creativity, and the idea of progress. They also examine the contradictions between the high ideals espoused by the Judeo-Christian religion and humanistic philosophy and the realities of exploitation, violence and suffering that have characterized Western civilization. The course concludes by considering the possibilities for creating an ideal society today, based on integrating profound knowledge and experience from other cultures. Topics include: An overview of the cultural history of the West from classical Greece to contemporary America, contrasting European and Native American world-views, the history and values of the United States seen in art, and the quest for utopia (an ideal society) in America. Research project on a topic chosen by the student or an optional 6-day field trip to Washington, D.C. (\$695 fee). (2 credits)

FOREST ACADEMY and SCIENCE AND TECHNOLOGY OF CONSCIOUSNESS

Forest Academy Vision

Forest academies are two-week courses offered at the beginning of each semester that provide the opportunity for students to explore more deeply the principles associated with the development of their own inner intelligence—through their daily TM and TM-Sidhi practice—and to understand how it applies practically to specific areas of life. The goal is to more deeply connect the academic knowledge of the rest of the curriculum with universal principles of natural law, and transform it into a living and useful dimension of the students' lives by expanding their understanding of the outer and inner world.

During most forest academies students have the option to participate in a residence course (or World Peace Assembly for those who have completed instruction in the TM-Sidhi program.) These residence courses are periods of time (three days or more) during which students enjoy deeper and more frequent periods of meditation along with lectures and discussions that deepen their intellectual understanding of the development of consciousness. Residence courses and World Peace Assemblies also promote the release of deeper layers of fatigue and stress and lead to more profound experience of pure consciousness.

At the end of each forest academy the student experiences a new wave of freshness in body, mind, and perception, returning to studies with an expanded awareness, a clearer mind, and a greater desire to learn. Therefore, as the intellectual material of the student's academic program becomes more demanding, the student finds the ability to assimilate new knowledge increasing, so that learning is progressively easier, smoother, and more enjoyable.

FOREST/STC GRADUATION REQUIREMENTS

General University Requirement

All students are required to take a Forest Academy in each semester they are enrolled in at least four blocks of classes.

Graduation Requirement for Undergraduate Students

In the first semester, students take the Science and Technology of Consciousness course (STC 108/109) as a prerequisite to all subsequent course work at the University. This course takes the place of a Forest Academy in that semester. In all other semesters, students take a Forest Academy of their choice from those being offered at that time. To

graduate with a bachelor's or associate's degree a student must successfully complete one Forest Academy for each semester enrolled. One Forest Academy can be waived for students who are enrolled in degree programs of three or more semesters. For certificate programs, this requirement varies. Please consult the certificate program listing in this catalog for details.

Graduation Requirement for Graduate Students

In the first semester, graduate students take the Science of Creative Intelligence (FOR 500). This course is a prerequisite to all subsequent course work at the University. To graduate with a master's or doctoral degree, a student must successfully complete one Forest Academy for each semester enrolled, including FOR 500. One elective Forest Academy may be waived for students who are enrolled in degree programs of three or more semesters.

NOTE: Students in some nonstandard graduate programs may have different Forest Academy requirements. Any deviation from the general requirement is listed with the individual program's degree requirements.

COURSES

STC 108 Science and Technology of Consciousness

This forest orients students to the University and to Consciousness-Based education. Students will learn the Transcendental Meditation technique, and begin to explore the theoretical foundation for higher states of consciousness available through practice of the Transcendental Meditation program. If students already practice Transcendental Meditation, this forest will include a review of the principles and mechanics of the practice, based on their experience and questions. This course discusses the full range of consciousness from individual experience to a fundamental field of intelligence that underlies all of life and how this is unfolded through Consciousness-Based education. As part of this course, students will participate in 3-4 day base camp that focuses on team building, group processes, and leadership skills. (6 credits)

STC 109 Science and Technology of Consciousness: M.S.A.E. Track

In this seminar students will select a fundamental principle, concept or theme from Maharishi Vedic Science, research it, and lead the class discussion on their topic. This course will include extensive reading of the Vedic Literature in Sanskrit, discussion of advanced concepts from selected readings and videotapes, and extended Development of Consciousness for deeper experiences. As part of this course, students will participate in 3-4 day base camp that focuses on team building, group processes, and leadership skills. (6 credits)

STC 508 Science and Technology of Consciousness

This course discusses the full range of consciousness from individual experience to a fundamental field of intelligence that underlies all of life and how this is unfolded through Consciousness-Based education. (4 credits)

FOR 100 Science of Creative Intelligence: Understanding and Experience of the Source, Course, and Goal of Creative Intelligence in Your Own Pure Consciousness as the Basis of All Knowledge and Success in Life

In the Science of Creative Intelligence, students study the structure of the field of pure intelligence, from which all fields of knowledge arise. Only from this most fundamental level can knowledge be unified. This course examines how the creative intelligence displayed in every grain of creation arises in a systematic and sequential fashion from within that one basic universal field. Students also examine how one can access and use that universal field of intelligence to bring fulfillment to life and to life on Earth. In 1972, Maharishi laid out the main principles of this new science in a 33-lesson, videotaped course. He integrated the understanding of Nature's intelligence provided by modern science (through its objective approach) and by ancient Vedic Science (which utilizes both objective and subjective approaches to gaining knowledge). Students not yet instructed in the Transcendental Meditation program learn this simple, effortless technique as part of the SCI course. SCI has profound practical applications — in education, health, government, economics, and rehabilitation. Scientific research has demonstrated its ability to solve problems in all areas of individual and collective life — opening the door to an ideal life for humanity. (4–6 credits).

FOR 102 Advanced Seminar: Science and Technology of Consciousness.

In this seminar students will select a fundamental principle, concept or theme from Maharishi Vedic Science, research it, and lead the class discussion on their topic. This course will include extensive reading of the Vedic Literature, discussion of advanced concepts from selected readings and videotapes, and extended Development of Consciousness for deeper experiences. (4–6 credits)

FOR 103 Health-Related Fitness: Physical Activity to Promote Longevity and Fitness for Life

This course presents the latest knowledge from Western science and the Maharishi Consciousness-Based Health Care program concerning the optimum daily routine for establishing the foundation for lifelong excellent health and growing enlightenment. The major focus will be on the details of the ideal routine of sleep, diet, exercise, meaningful activity, recreation and the importance of the regular experience of pure consciousness for optimum health and evolution. This course will combine both lectures and physical activity labs. (Not repeatable) (2 credits)

FOR 399 Directed Study

(variable credits) *Prerequisite*: consent of the Department faculty

FOR 400 A Glimpse of Total Knowledge

This course is an introduction to various facets of Maharishi Vedic Science, including the Transcendental Meditation technique, Consciousness-Based education, Maharishi Vedic Organic Agriculture, Maharishi Vedic Architecture, Maharishi Ayurveda, Maharishi Gandharva Veda, and higher states of consciousness. Structured for Chinese students, the course includes a comparison of Maharishi Vedic Science and traditional Chinese culture, such as the Tao Te Ching. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 401 Revival of the Knowledge of Enlightenment

This course explores the extraordinary story of how the world reawakened to the knowledge of enlightenment. About fifty years ago Maharishi responded to the need of the time for higher consciousness and set out from India to bring the experience of transcending to the West. This experience ignited a global awakening, transforming consciousness and the quality of life for millions of people. Through guest speakers who worked personally with Maharishi, heartwarming videotapes, and interviews, students will get a picture of this transformative time in human history. Students will have many opportunities to discuss any questions they have about Maharishi's teachings and the Transcendental Meditation movement. Topics include: Maharishi's time with his spiritual master, Guru Dev; how Maharishi left a recluse life in the Himalayas to teach in the world; the beginnings of the student Transcendental Meditation movement; the founding of Maharishi University of Management and Maharishi's visits to the campus; and the progressive unfoldment of Vedic technologies to enlighten the individual and enliven the basis of world peace. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 403 Creativity and the Image in Studio Art: Engaging the Dynamics of Natural Law

Visual expression in works of art reveals the artist's connection with the deep laws fundamental to seeing and creating visual images. In this course, students explore art through a variety of videotape offerings presenting perspectives on creativity and the arts. Students see tapes of Maharishi speaking on the creative process and engage in discussions related to topics in creativity. Tape and discussion sessions are complemented by studio exercises that address the development of image in two dimensions, allowing course participants to focus on the creative process and experience it as a deep part of themselves. Lab Fee \$10. (2 credits)

FOR 409 The Spiritual Quest in Media, Myth, and Myself: The Hero's Journey as the Development of Consciousness

Students explore their own spiritual quest in the light of the wisdom shared in great mythic stories, focusing on an ancient epic (The Ramayana), mythology, and modern films. Students identify the universal stages of the quest archetype: the hero's journey as he or she evolves to higher states of awareness. Students critically evaluate theories of consciousness, including the Maharishi Science and Technology of Consciousness, analyzing how these theories can illuminate mythic stories and their own lives. In the culminating course project, students create a mythic story that reflects their personal vision and the transformation of consciousness. (2 credits)

FOR 410 Discovery of the Veda and Vedic Literature in Human Physiology: Discovering the Laws of Nature in the Structure and Function of Your Own Physiology

This course introduces the Maharishi Vedic Science understanding of the Veda and Vedic Literature as the underlying intelligence that structures the universe, including our mind and body. Based on this understanding, students explore the historic discovery of Veda and Vedic Literature in the human physiology, brought to light by Professor Tony Nader, M.D., Ph.D., under the guidance of Maharishi. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 411 Consciousness and the Vedic Literature in Maharishi Vedic Science: How the Self Interacts with Itself to Create the Veda, the Laws of Nature Structuring the Universe

This course introduces, through Maharishi's videotaped lectures and writings, the understanding of how the self-interacting dynamics of consciousness is the Veda and Vedic Literature, the total potential of Natural Law that gives rise to the universe. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 415 Drawing from Nature

Students will look to and draw inspiration from Nature. Drawing will only be one of the many modes that students will express their appreciation for nature. They will also have the opportunity to express their experiences and discoveries of the inner and outer values of Nature through poetry, journal writing, photography, painting, music, etc. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 419 Inspiration through Film: Exploring the Fundamentals of Entertainment

This Forest Academy course will focus on films that have created an uplifting influence on society and attempt to isolate the fundamentals of inspiration and entertainment. Students will view select films from the past 75 years and discuss their messages and the

impact they have had in the context of Maharishi's theory of communication and their role in heralding the coming Age of Enlightenment. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 420 Consciousness and Physiology: Understanding Human Physiology as an Expression of the Same Laws of Nature That Structure Your Consciousness

This course reviews how consciousness gives rise to different constituents of the physiology, and examines the foundational principles of Maharishi Vedic Science that give rise to the Maharishi Vedic Approach to Health and the discovery of the Veda and Vedic Literature in human physiology. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 422 Human Relations: Creating from any Group a Harmony of Differences

This Forest Academy explores one of the deepest aspirations of all civilized societies: to be a togetherness of differences. Special attention is given in the course to the school as a microcosm of the larger society, and to American society as a reflection of all modern societies. Students learn various team-building and tolerance-developing strategies that use the differences in any group and strengthen its harmony. They also study the application of Maharishi's technologies for the development of individual and group consciousness to the development of group coherence. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 423 Leadership for Community Building: Progressing Together to Enjoy Fulfillment Together

This course will focus on providing students with tools and techniques to be effective leaders and exceptional group participants. There will be a deep emphasis on improving communication skills and developing greater self-awareness. Students will learn about individual tendencies, team dynamics, mediation and facilitation. They will also learn how to recognize subtle body language in communication and how to recognize and address the needs and concerns of diverse individuals they are working with. Together we will explore what it means to be a leader within our communities, and specifically, in the Maharishi University of Management community. The class will be interactive and provide students with time to experience the lessons through various planned activities. All students interested in being part of the Peer Mentorship must take this course. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 424 Professional Success: Skills in Action

The goal of this course is to familiarize students with soft skills — intra-personal and interpersonal — which determine a person's ability to excel or at least fit in a particular social structure, such as a project team or a company. These skills include competencies

in areas such as communication, personal habits, time-management, personal relations, etiquette, self-motivation, self-discipline, persuasion, etc. Students will understand cultural orientation of the U.S. i.e., how people in the U.S. speak, act, negotiate and make decisions. They will also learn how these skills arise from their common source in the eternal Laws of Nature as explained by the Science of Creative Intelligence. (2 credits)
Prerequisite for undergraduates: FOR 103

FOR 426 Maharishi Vedic Observatory: Connecting Human Consciousness and the Cosmos

The Maharishi Vedic Observatory is unique in the world for its ability to display in one compact form the whole structure of the universe along with all the movements of the sun, the planets, and the stars. It is the only example in existence today of this timeless knowledge that was once in every culture around the globe. Students will explore the profound knowledge in this Vedic observatory, learn how to use the instruments, and gain a glimpse of other ancient structures that sought to unite heaven and earth, such as Stonehenge, Maachupichu and others in Mexico, China, Egypt, India, and Southeast Asia. Ancient Vedic literature, as illuminated by Maharishi, reveals that a Vedic Observatory connects the structure of the universe and the structure of our own awareness. Students will enjoy an experience of the correspondence of the individual's inner intelligence to the orderly intelligence of the universe as displayed in the planets and stars, which helps restore health to the mind and body. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 427 World Art and Media: How Painting, Sculpture, Architecture, and Film Mirror Consciousness

In this course, students discover how art and media from many cultures express universal qualities, principles, and structures of consciousness. Topics explored in art and media include: transcending, self-referral, creativity, archetypes or structures of awareness, qualities of pure consciousness (the Unified Field of Natural Law), principles such as the coexistence of opposite values, and the art of living in higher states of consciousness. Includes a field trip to a meditating artist's gallery. (No field trip fee.) (2 credits)
Prerequisite for undergraduates: FOR 103

FOR 428 Creating Peace: Enlivening the Orderliness and Peace of the Unified Field to Create Permanent World Peace

Through tapes, guest lectures, readings, and discussions, the class will explore the deepest questions about creating sustainable world peace. The course reflects on how Maharishi's Vedic knowledge and technologies for developing individual and societal coherence and harmony support and accelerate our own evolution and the initiatives of

others desiring to create peace in the world today. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 429 Maharishi's Principles of Success: Developing Purity of Consciousness and Aligning Behavior with Natural Law as the Foundation of Success in Every Area of Life

Success in life is based on profound knowledge that guides action to produce the desired achievement to bring fulfillment. This course explores key themes of knowledge that highlight the contributions of Maharishi Vedic Science and Technology to individual and professional success and fulfillment in life. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 430 Topics in Maharishi Vedic Science

This course presents the knowledge in Maharishi Vedic Science, as formulated by its Founder, Maharishi Mahesh Yogi, and as applied to all streams of knowledge by the University faculty. (2 credits — may be repeated for credit) *Prerequisite* for undergraduates: FOR 103 *Prerequisite* for graduates: consent of the Department faculty

FOR 432 The Philosophy of Action: Transcending the Field of Activity as the Basis for Right Action and Fulfillment in Life

This course investigates the explanation in Maharishi Vedic Science of the role of action in the development of higher states of consciousness and how action performed from the level of pure consciousness spontaneously gains the support of all the Laws of Nature for maximum success. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 433 Women, Wisdom and the World: Exploring the lives of Great Women, including Us

Through the writings of great women throughout time, and the knowledge of Maharishi Vedic Science, this course for women will look at those essential qualities springing from the deepest part of ourselves, and how developing them creates an innate and natural wisdom that becomes central to who women are as individuals. How women apply, and equally important, how women protect these qualities in the world is what makes a woman great and what brings her fulfillment in every area of her life. (2 credits) *Prerequisites*: women only, for undergraduates: FOR 103

FOR 434 The Creative Process: Tracing Human Creativity to the Infinite Creativity of Natural Law — Developing the Unbounded Source of Your Own Creativity

From the standpoint of the Maharishi Science of Creative IntelligenceSM program, creativity expresses the fundamental characteristic of Nature itself — to expand through the process of evolution and find full expression. In this course, students explore the full range of creativity, from the creative dynamics within the pure, self-referral level of

consciousness, through self-expression in the arts and other fields, and culminating in Self-expression in unity consciousness. This rich and stimulating course, developed by faculty in the Departments of Fine Arts and Literature, includes beautiful tapes of Maharishi speaking on the creative process and a wide range of other creative activities. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 435 The Vedic Literature: Experiencing the Laws of Nature That Create Both You and the Universe

This course reviews the mechanics, detailed in Maharishi Vedic Science, by which pure knowledge unfolds from the self-interacting dynamics of consciousness in the impulses of Natural Law reflected in the structure of the Vedic Literature: the Samhita, Brahmana, Vedanga, Upanga, Itihasa, Purana, Smriti, and Upaveda. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 436 Collective Consciousness and World Peace: How Maharishi Technologies of Consciousness Can Create Peace for the World Family

This course explores the principles and dynamics of collective consciousness and introduces the evidence verifying beneficial changes in individual and social life produced by the group practice of the Transcendental Meditation and TM-Sidhi programs. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 437 Becoming a Leader: Strengthening Your Relationship with Your Self to Rise to True Leadership

Delving into Maharishi's knowledge of leadership, students hear leaders interpret their leadership experiences, and leadership consultants speak on the success of Consciousness-Based leadership. Students examine their own experiences of leadership and discover the principles of consciousness at work in those experiences. They also consider how to apply this knowledge of leadership in their future career. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 438 Ideal Relationships: Improving Your Relationships by Exploring the Principles of Natural Law That Operate in All Relationships

We live our lives in relationships, beginning with our mother, father, and family, expanding to our friends, spouse, and children, our business associates, our fellow citizens, and on to all the people of the world. Handling these relationships with wisdom, appropriateness, and love is central to our good fortune. The Science of Creative Intelligence and Maharishi Vedic Science provide insights into how all relationships have their source in the self-referral dynamics of consciousness, our own Self — and guidelines for ensuring that our relationships are in accord with the natural evolution of life in accord with Natural Law. The course features tapes of Maharishi, guest

presentations, group projects, and practical knowledge of etiquette. (2 credits)

Prerequisite for undergraduates: FOR 103

FOR 439 The Bhagavad-Gita: Appreciating the Textbook of the Age of Enlightenment

In this course, students experience the practical and universal nature of knowledge expressed in the Bhagavad-Gita, the central work of the Vedic Literature. During the course, students:

- read all 18 chapters aloud,
 - hear Vedic Pandits recite the Bhagavad-Gita in Sanskrit,
 - begin learning the Bhagavad-Gita in Sanskrit, and
 - read all the verses of the first six chapters and highlights from Maharishi's commentary.
- Students choose a special theme and trace it through the text, and express understanding of the Bhagavad-Gita through art, music, literature, drama, and games. (2 credits)

Prerequisite for undergraduates: FOR 103

FOR 440 Introduction to Sanskrit: Learning the Language of Nature

Maharishi has said that learning Sanskrit is absolutely essential for our evolution. Reading the Vedic Literature in Sanskrit, he explains, produces a distinct physiological effect, making brain functioning more orderly. Besides watching and discussing tapes of Maharishi on Sanskrit, students learn to pronounce the Sanskrit alphabet, learn to write and recognize letters in the Devanagari script, recite from the Bhagavad-Gita in Sanskrit, and learn Sanskrit quotations that Maharishi has emphasized over the years. (2 credits)

Prerequisite for undergraduates: FOR 103

FOR 441 Yogic Flying: From Heightened EEG Coherence to Heaven on Earth

Maharishi has brought to light powerful technologies for developing the unbounded potential of human consciousness and creating an ideal society. By far the most powerful of these is Yogic Flying, which induces maximum coherence in brain functioning, creates an upsurge in coherence throughout the collective consciousness of society, and brings life into harmony with Natural Law. In this course, students focus on the mechanics of Yogic Flying — how it works and how it produces such remarkable effects. In particular, students prepare to give Yogic Flying demonstrations. They prepare short presentations as a group, and in the second week of the course go to another school, college, or university and give a Yogic Flying demonstration. (2 credits — may be repeated for credit) *Prerequisite* for undergraduates: FOR 103

FOR 442 Maharishi Self-Pulse Assessment: The Touch of Three Fingers on the Pulse — Finding and Correcting Imbalance and Creating Health

Maharishi has encouraged every individual to learn the Maharishi Self-PulseSM program as a technology for structuring more ideal health for themselves and their entire family.

This course is the most comprehensive course offered to date. During the course, the following topics are discussed:

- How the intelligence within the physiology is reflected in the pulse
- Feeling the influence of cosmic cycles in the pulse
- Feeling imbalances in the pulse
- The stages of imbalance
- Causes and effects of imbalance
- How the body's inner intelligence protects against imbalance
- Restoring and maintaining balance through proper diet and through daily and seasonal routine. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 445 Maharishi Consciousness-Based Health Care: Creating Perfect Health by Understanding the Human Physiology as the Expression of Veda and Vedic Literature

This course presents the wholeness of the Maharishi Vedic Approach to Health, which is rooted in the historic discovery of the Veda and Vedic Literature in human physiology, brought to light by Professor Tony Nader, M.D., Ph.D., under the guidance of Maharishi. Students learn:

- how the intelligence of Nature, as expressed in the Veda and Vedic Literature, forms the basis of the structure and function of the physiology, and
- how human physiology forms a perfect replica of Nature's intelligence, the Constitution of the Universe.

This knowledge, together with the technologies that arise from it, represents the complete knowledge of perfect health — and the key to perfection in every area of life. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 446 Nobel Laureates

In this course, students hear presentations from a range of faculty on the latest and most exciting discoveries in each of their fields — discoveries that either have won a Nobel Prize or are worthy of one. Students learn more about the discovery process by exploring, with leading University faculty, the cutting edge of knowledge and the people behind it in a variety of disciplines ranging from physics to the visual arts. Students' own self-referral creative process will be enlivened through multimedia presentations, lively discussions, readings, and creative exercises. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 447 Raja Raam Award — Preparatory Course: Discovering the Structure and Function of Veda and Vedic Literature in Your Major Field of Study

The University faculty have established a special award, the Raja Raam Award, which will go to the graduating senior who: 1) has most profoundly integrated the 40 qualities of the Veda and Vedic Literature with his or her discipline, and 2) submits an

undergraduate portfolio of the highest quality. During this course, seniors prepare their portfolios to be submitted for this award. They begin this process with a review of Professor Nader's work on the 40 aspects of the Vedic Literature and their correspondence in the human physiology. Based on this review, students write a summary of how these aspects can be connected to their academic discipline. (2 credits)

Prerequisite: consent of instructor

FOR 448 Enlightened Entertainment: How Entertainment Can Serve as a Powerful Means of Developing Consciousness

In this course, students explore the nature and purpose of entertainment and its relationship to Maharishi Vedic Science. Students take lessons in Maharishi Gandharva Veda music and study Maharishi's principles of ideal entertainment. As part of the course, workshops are presented by guest entertainers during which students create their own enlightened entertainment. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 449 Maharishi Yoga Asanas

The goal of this course is to enhance physiological balance and mind-body coordination through simple *Maharishi Yoga Asanas* program postures and breathing exercises. This course gives a comprehensive understanding of the nature and attainment of Yoga, which is the unification of individual and cosmic life. (variable credits) *Prerequisite* for undergraduates: FOR 103

FOR 450 Maharishi's Recent Writings: Studying the Words of an Enlightened Teacher to Promote Your Own Enlightenment

This course gives students the opportunity to deeply study recent writings from Maharishi under the guidance of University faculty, and to research key themes from these writings in related videotapes and lectures. Possible texts include: *Celebrating Perfection in Education*, *Maharishi's Absolute Theory of Defense*, or *Maharishi Vedic University: Introduction*. (2 credits — may be repeated for credit) *Prerequisite* for undergraduates: FOR 103

FOR 4531 Reading the Vedic Literature and Gandharva Veda

This Forest Academy explores Gandharva Veda, the Vedic Literature that deals with music, dance, and theater. Students will read in Sanskrit excerpts from the principal Vedic text — the *Natya Shastra*; and from one of its commentaries — the *Sangita Ratnakara*. Included is regular listening to Maharishi Gandharva Veda music, both recorded and live, as well as study and discussions on the powerfully harmonizing and integrating effects of music on the physiology and environment. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 454 Yoga Sutra: Textbook for the Science and Technologies of Consciousness

In this Forest Academy, students will read the Yoga Sutra in Sanskrit and in English, and will learn Vedic expressions from the Yoga Sutra emphasized by Maharishi. Students will view tapes by Maharishi on Yoga and the Yoga Sutra. Students will have the opportunity to round for the entire two weeks. (2 credits — may be repeated for credit)

Prerequisite for undergraduates: FOR 103

FOR 456 Prevention

This course offers a holistic, prevention-oriented approach to good health that integrates principles from the 40 areas of Veda and Vedic Literature to restore and maintain balanced health in mind, body, behavior, and environment. This course includes specific knowledge of daily and seasonal routines, diet, other health-promoting behavior, and the development of higher states of consciousness, all of which bring life into harmony with Natural Law. (variable credits) *Prerequisite* for undergraduates: FOR 103

FOR 457 Diet and Digestion

This course provides profound principles and practical knowledge of how to promote good health through proper diet, digestion, and nutrition. Topics include: factors to consider in dietetics; the physiology of digestion and metabolism; balance and imbalance of digestion and metabolism, and their correction; the influence of mind, senses, emotions, and behavior on digestion; and the relationship of diet and digestion to the development of higher states of consciousness. (variable credits) *Prerequisite* for undergraduates: FOR 103

FOR 458 Ayurvedic Cooking

This course provides principles and practical knowledge of how to promote good health through proper nutritious diet. Participants learn to select their own specific diet based on their body type and according to time of day and season, to achieve balanced digestion in order to promote optimal nourishment and health. Topics include: cooking method and its effect on quality, the right time to cook and eat, the cycle of seasons as well as life's seasons, the effects of food on the development of higher stages of consciousness. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 459 Health-Related Fitness: Physical Activity to Promote Longevity and Fitness for Life

This course presents the latest knowledge from Western science and the Maharishi Consciousness-Based Health Care program concerning the optimum daily routine for establishing the foundation for lifelong excellent health and growing enlightenment. The major focus will be on the details of the ideal routine of sleep, diet, exercise, meaningful activity, recreation and the importance of the regular experience of pure consciousness

for optimum health and evolution. This course will combine both lectures and physical activity labs. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 460 Ideal Daily Routine: Aligning Our Actions with the Cycles of Nature's Intelligence to Promote Growth to Higher States of Consciousness

This course presents the knowledge from the Maharishi Vedic Approach to Health concerning the optimum daily routine for establishing the foundation for lifelong excellent health and growing enlightenment. Topics include: the effects of sleep and the results of sleep deficit, details of the ideal routine of diet and exercise, and the importance of the regular experience of pure consciousness for optimum health and evolution. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 462 Maharishi Yoga Asanas

The goal of this course is to enhance physiological balance and mind-body coordination through simple *Maharishi Yoga Asanas* program postures and breathing exercises. This course gives a comprehensive understanding of the nature and attainment of Yoga, which is the unification of individual and cosmic life. (variable credits) *Prerequisite* for undergraduates: FOR 103

FOR 463 Ramayana

In this course, students will study the Ramayana, one of the great epics of the Vedic Literature. Students will read the Ramayana in Sanskrit and English, and will see videos of the Ramayana created by Ramanand Sagar. Students will see videotapes by Maharishi on topics related to the Ramayana, and will participate in presentations on the Ramayana. (2 credits) *Prerequisite:* instruction in the TM-Sidhi program, and for undergraduates FOR 103

FOR 464 The Upangas and the Development of Consciousness: The Growth of Higher States of Consciousness as Described in the Vedic Literature

This course explores the Upangas, the six branches of the Vedic Literature that give the vision of enlightenment and the technologies for the full development of consciousness. In this course, the students will read selections from the Upangas in Sanskrit and English; memorize Vedic expressions emphasized by Maharishi from two of the six branches of Upangas, Yoga Sutras, and Brahma Sutras; study lectures by Maharishi on the Upangas; and explore the correlations between the Upangas and human physiology discovered by Professor Tony Nader, M.D., Ph.D. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 465 Maharishi's Absolute Theory of Government: Governing Human Life by the Same Cosmic Principles That Nature Uses to Govern the Ever-Expanding Galactic Universe Without a Problem

This course reviews the fundamental principles of government brought to light in Maharishi's videotaped lectures and writings. A principal focus of the course will be a close reading of Maharishi's book, *Maharishi's Absolute Theory of Government: Automation in Administration*. A major theme is that every government worthy of the name must have the ability to prevent problems; it emphasizes that this goal is achievable for any government by aligning the constitution of the nation with the Constitution of the Universe, Cosmic Intelligence. Cosmic Intelligence, Maharishi explains, is that absolute intelligence of Natural Law at the source of all the Laws of Nature that governs the entire universe with absolute order and precision. Students also examine Maharishi's analysis of how the nature and functioning of government reflect the quality of the collective consciousness of the nation, and how governmental performance can be improved by creating coherence in national consciousness through the Maharishi Technology of ConsciousnessSM. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 466 Presenting *Consciousness-Based* Education: Expressing the Principles of Education for Enlightenment

Students are given the opportunity to discuss, write, and speak publicly about the system of education in which they are learning — Consciousness-Based education. Topics include: historical precursors in the writings of great educators, scientific research, issues of educational reform, and approaches that Maharishi has used to describe it. At the conclusion of the course, students apply their public speaking skills in planning and giving a public lecture on Consciousness-Based education at a local college or high school. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 467 Upanishads

In this course, students study the Upanishads, one of the most important aspects of the Vedic Literature. Students read the Upanishads in Sanskrit and English, see videotapes by Maharishi on the Upanishads, and learn Vedic expressions from the Upanishads. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 468 World Peace

The main goal of this course is for all to enjoy the experience of peace in our own awareness. The emphasis will be on an easy, comfortable, ideal Sidha rounding routine. In addition the class hear classic tapes of Maharishi on the theme: Knowledge for Fulfillment. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 469 Maharishi on God and Religion

This two-week course will focus on Maharishi's knowledge on the nature of God, religion, prayer, ritual, scripture, spiritual development, devotion and service, the relationship between science and religion, right and wrong, the kingdom of God on Earth, and the state of God-realization. The course includes extended group practice of Maharishi Transcendental Meditation and TM-Sidhi programs, including Yogic Flying. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 470 Maharishi Vedic Science and Sustainability

In this course, our focus is: "Seed to Seed: Food, Agriculture and You." The goal of the course is to understand the role of Vedic organic food preparation for the development of higher states of consciousness. We explore what makes food Vedic organic, with tapes from Maharishi and other experts. We visit two farms and Maharishi University of Management kitchens. The dangers of genetically modified foods are analyzed. Each student receives a food plant to nurture. The course is suitable for all Maharishi University of Management students. The syllabus of this course can be seen at seedtoseed.wikispaces.com (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 471 Climate Change and Collective Consciousness

Will the polar bear survive? Will people be growing mangoes in England? Most people have an opinion about climate change but few really study it. This course is an opportunity to explore this fascinating and important subject for sustainability. In particular we will discover the relationship between climate and consciousness on the individual, national and global level. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 472 Vedanta and Quantum Physics

In this forest academy, students will study in detail the parallels between Shankara's Vedanta and quantum physics. Students will read in Sanskrit and in English from the three sources of Vedanta — the Brahma Sutra, Upanishads, and Bhagavad-Gita. In addition, students will view tapes by Maharishi on Vedanta and read selections from his writings on Vedanta. Students will compare the main principles of Vedanta to the principles of quantum physics. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 473 Parliaments of World Peace

In this forest academy, students will view lectures made by Maharishi in March and April of 2006. This historic set of talks, called the Parliaments of World Peace, offers an opportunity to grasp Maharishi's understanding of many areas of society: agriculture, architecture, health, education, government, management, art, religion, and defense. (2 credits) *Prerequisite* for undergraduates: FOR 103

FOR 474 Maharishi's Supreme Knowledge of Enlightenment

This special forest academy for Sidhas will focus on a series of remarkable talks that Maharishi gave to the Invincible America Assembly. These are the latest and most profound discussions of experiences of higher states of consciousness that Maharishi had waited years to reveal. This course is designed for those who want to dive deep into knowledge and experience with Maharishi's most current guidance. (2 credits)

Prerequisite for undergraduates: FOR 103

FOR 490 World Peace Assembly: Creating World Peace from the Least Excited State of Your Own Consciousness

In this Forest Academy, students participate in a World Peace Assembly that allows them to refine their own consciousness while creating coherence in national consciousness through the Maharishi Technology of Consciousness. (0.5 credits — may be repeated for credit) *Prerequisite* for undergraduates: FOR 103

FOR 500 The Science of Creative Intelligence: Understanding and Experience of the Source, Course, and Goal of Creative Intelligence in Your Own Pure Consciousness as the Basis of All Knowledge and Success in Life

This is the foundation of our Consciousness-Based education program. The Science of Creative Intelligence has two aspects: (1) the systematic study of the field of pure intelligence, the Unified Field of Natural Law, and the principles by which it governs the coexistence and evolution of all systems in Nature, and (2) the direct experience of this field through the Transcendental Meditation and TM-Sidhi programs. The Science of Creative Intelligence links the deepest understanding about Nature found in modern science with the understanding expressed in Maharishi Vedic Science. The Science of Creative Intelligence, founded by Maharishi, is a new discipline that provides systematic knowledge and experience of pure creative intelligence. The Science of Creative Intelligence not only validates the truth of knowledge on the basis of personal experience, but also finds validation in modern empirical research. With their daily enlivenment of consciousness through group practice of the technologies of Maharishi Vedic Science, students grow in the fruit of all knowledge: the ability to know anything, do everything right, and thereby accomplish anything. Therefore, Maharishi Science of Creative Intelligence is the foundation for a universal and complete understanding of the full range of human potential.

Maharishi summarizes the vision opened by his Science of Creative Intelligence as follows: “The Science of Creative Intelligence opens human awareness to the Unified Field of Natural Law. The Unified Field is the common basis of all activity in the universe. The application of this knowledge is in all fields of life, and research properly

guided in the field of the Science of Creative Intelligence will revolutionize all fields of life and living in the world. It will bring life in accordance with Natural Law. That means life spontaneously in the evolutionary direction that is the basis of all success and progress in any country. The Science of Creative Intelligence introduced in education has a future for creating Heaven on Earth — life in the fullness of bliss and daily living without stress and suffering.”

This videotaped 33-lesson course includes discussion of the nature and range of creative intelligence, the qualities it displays, its principles, its expression in the life of the individual, and its application in the life of society to uplift human civilization to its highest level. (4 credits)

FOR 510 Maharishi’s Absolute Theory of Management, Wholeness on the Move

This course explores various topics in Maharishi’s Absolute Theory of Management. Students learn that every manager can harness the organizing power of Nature and spontaneously act in accord with Natural Law through the practice of the Transcendental Meditation and TM Sidhi programs. Nature always takes the path of least resistance; managers can learn to do less and accomplish more as they develop their consciousness and become more in tune with the managing power of Nature. (1–4 credits) This course may be repeated for credit with different topics.

FOR 598 Faculty Training Course: Mastering the Techniques of *Consciousness-Based Education* to Deliver Education for Enlightenment

This course prepares doctoral candidates to be competent college teachers and writers in their professions. Topics include lecturing skills, making instructional charts, designing learning activities, writing for general and professional readers, and evaluating one’s own and others’ teaching and writing. During the course, students design and teach lessons, analyze examples of writing, write a short research paper or article, and understand their field of study in the context of interdisciplinary studies through their teaching and writing. (2 credits) *Prerequisite:* consent of instructor

FOR 700 Vedic Science Research: Using Maharishi Vedic Science to Illustrate Fundamental Principles in Dissertations

This course provides an opportunity for Ph.D. students to investigate the relation of Maharishi Vedic Science to their dissertations. What students produce in the course forms the seeds for sections in their final dissertations. During this course, students create a Unified Field Chart and a Richo Akshare line for their dissertation, refine their ability to write about Maharishi Vedic Science, and enjoy a lively interchange with fellow Ph.D. students from all departments in the University. (2 credits — may be repeated for credit)

Prerequisite: Students must be in a doctoral program and have completed their Qualifying Exam.

DEPARTMENT OF ART

FACULTY

- James Shrosbree, M.F.A., Chair, Professor of Art
- Matthew Beaufort, M.A., M.A., Associate Chair, Assistant Professor of Art
- Dale Divoky, B.F.A., Associate Professor of Art
- Ceyrena Kay, M.L.A., Assistant Professor of Art
- Gyan Shrosbree, M.F.A., Assistant Professor of Art
- Gillian Brown, M.F.A., Adjunct Assistant Professor of Art
- Several faculty in Media and Communications teach courses eligible for art credit

INTRODUCTION

The Department of Art is dedicated to nurturing the deepest values of creative expression in our students. Students discover their own inspiration by accessing the unbounded source of creativity within themselves. The department provides a uniquely life-supporting environment in which the students' personal inspiration can attain artistic realization. Living within this extraordinary community, students discover their artistic genius and begin to unfold their full potential.

Our arts programs are unique. They integrate practical training in studio art, profound intellectual understanding, and the progressive development of consciousness — the basis of all creativity. The fine arts are the creative self-expression of consciousness, articulating the awareness of the artist and enlivening the awareness of the audience. To realize the finest values of art, the artist and the viewer must experience the most expanded values of consciousness. While mastering the skills and knowledge of art, our students become well acquainted with consciousness and the mechanics of creativity, thereby enjoying more effortless, stress-free, and spontaneous creative expression.

The faculty support students' enlivened creativity by encouraging them through their successes — a teaching method that strengthens the students' natural inspiration. Our faculty, who exhibit and lecture around the country, have been recognized for excellence in both art-making and teaching. Our graduates have gone on to successful careers as artists, educators, arts administrators, designers, animators, and in video production, advertising, and Web design.

Traditionally, the arts have celebrated the most glorious possibilities for human life. The arts have articulated high ideals of beauty, harmony, and wholeness. These ideals are now beginning to become realities of creative expression and daily life for students at Maharishi University of Management.

Comments on our faculty and students by a Visiting Evaluator

Aribert Munzner, Professor Emeritus at the Minneapolis College of Art and Design, observed, “The faculty is a totally dedicated, professional community that reveals sensitivity and understanding of every student’s needs, exhibits professional competency in each of their respective areas and has demonstrated the ability to communicate in word and image the breadth and depth of not only the particular subject area under discussion, but also the skill in integrating that special discipline to the larger context of art and culture. . . . The students are profoundly committed, authentically motivated, genuinely curious. . . . They emerge into the world with the skills necessary for a career in art and even more important — as individuals with an awareness of the opportunities for positive contributions to humanity.”

Programs Offered

- Bachelor of Fine Arts (B.F.A.)
- Bachelor of Arts (B.A.) in Art
- Bachelor of Arts (B.A.) in Art with a Concentration in Creative Musical Arts
- Special one-year B.F.A. program for students who already have a B.A. in Art
- Post-Baccalaureate Certificate in Fine Art
- Minor in Art

SPECIAL FEATURES

Students explore their creativity in the most refined fields of personal expression, mentored by accomplished faculty artists who are experts in guiding aspiring artists.

Students:

- Interact with visiting artists from around the country and with established artists in the Fairfield area who have given the town a regional reputation as a center for the arts.
- Explore the greatest art of the past and present in the light of consciousness, and gain inspiration to develop their artistic genius.
- Take field trips to major cultural centers such as Chicago and New York and explore the universal and unique values of consciousness expressed in the art of many cultures.

- Develop tools for self-evaluation and career development, forming the basis for professions in the arts.

Painting and Drawing Courses

- Explore painting and drawing as a special means to see and express one's self in relation to the world.
- Explore the nature of painting — its forms, tools, materials, and processes.
- Develop a deep knowledge of the language of painting and the overarching visual principles that connect all forms of painting.
- Learn from in-depth interactions with faculty in small classes.

Ceramics Courses

- Relate the knowledge and experience of ceramics to the growth and evolution of one's own consciousness.
- Develop knowledge of materials, processes, and traditions that have fostered the creation of clay pottery, sculpture, and tile.
- Work in a fully equipped studio, which allows students to develop experience with a variety of methods of working in clay — including handbuilding, wheelthrowing, and moldmaking. Firing methods include low-fire, high-fire stoneware, soda, and raku.

Sculpture Courses

- Learn the underlying principles that apply to the space/mass, proportion, size, scale, and light, and the formal language that is fundamental to sculpture.
- Gain knowledge of materials, structure, and forming methods.
- Address a range of topics that include knowledge of the figure, surface possibilities in relation to form, narrative development, installation, and site-specific outdoor work in nature.
- Use facilities for plaster, clay, wood, and metal work.

Photography/Video/ Digital Media

- Explore the language of sight and sound and its relation to the inner value of consciousness. Creatively apply computer, photographic, and video technologies in well-equipped digital media and photo labs.
- Develop fundamental photographic skills in well-equipped facilities, which include group B/W darkroom, photo studio, film processing room, and advanced color

darkroom. Students also learn the basic principles and techniques of digital commercial photography.

- Integrate traditional photography methods (aperture, shutter speed, focus, film speed) with new possibilities presented by using computer technologies to explore layering, adding text, hand drawing, or other digital manipulation.
- Develop a deeply interdisciplinary perspective, which prepares them for the digital, communications-intensive career world.
- Become proficient in advanced techniques in the field by interacting with computer lab software, by learning digital enhancement and manipulation, and by synthesizing photographic images.
- Become proficient in software while exploring contemporary digital techniques in photography, video production, web design, animation and graphic design.

DEPARTMENTAL REQUIREMENTS

Programs Offered

Students may take a Minor in Art, B.A. in Art, or a B.A. in Art with a concentration in Creative Musical Arts. Both of these 52-credit B.A. programs allow students to do another 52-credit major for a double major. For students who want to create a foundation for a career in the arts, we recommend the Bachelor of Fine Arts (B.F.A.), a professional degree program. B.F.A. students specialize for four months in advanced studio courses in one of these areas: painting and drawing, ceramics, sculpture, photography, or digital media, and complete personal projects under the guidance of faculty who are experts in the area of specialization. During this time, students find their own voice within the visual language of their chosen field. Students develop a fine arts portfolio or undertake commercial art projects that may offer income or lead to employment after graduation. Students who have a B.A. from Maharishi University of Management or another university may take a special B.F.A. program that allows the holder of a Bachelor of Arts degree in Art to receive the B.F.A. degree in as little as one year.

The Art Department also offers a Post-Baccalaureate Certificate program, which is intended to provide an intensive fine arts studio experience to B.F.A. graduates who may need more studio time in order to prepare a portfolio for application to an M.F.A. program, or who need more experience working in their own studio to develop a body of work.

Graduation Requirements for the Bachelor of Arts (B.A.) in Art

52 credits (16 art courses) including:

16 credits of these required second-year courses:

- FA 201 Art in Nature
- FA 203 Understanding Art and Media
- FA 205 Principles of Design
- FA 301 Drawing 1

plus 8 credits from the following art history courses:

- FA 381 Prehistoric to Medieval Art
- FA 382 Renaissance to Contemporary Art
- FA 383 Nineteenth, Twentieth, and Twenty-First Century Art
- FA 384 Traditions of World Art
- FA 470 Contemporary Art and Criticism Seminar (highly recommended)

plus 4 credits of either:

- FA 341 Ceramics 1
- FA 351 Sculpture 1

plus 24 credits (6 courses) of electives in art from the following:

- FA 141 Art and the Self
- FA 304 Drawing Studio
- FA 308 Screenprinting
- FA 311 Painting 1
- FA 312 Painting 2
- FA 316 Painting 3
- FA 331 Photography 1
- FA 332 Photography 2
- FA 338 Photo and New Media 1
- FA 339 Photo and New Media 2
- FA 341 Ceramics 1
- FA 342 Ceramics 2
- FA 343 Ceramics 3
- FA 344 Ceramics 4
- FA 351 Sculpture 1
- FA 352 Sculpture 2
- FA 353 Sculpture 3
- FA 355 Environmental Art
- FA 356 Sustainable Garden Design

- FA 373 Visiting Artist Studio
- FA 398 Fieldwork/Internship
- WTG 373 Graphic Narrative

The 24 credits of electives may include up to 12 credits from these courses in Media and Communications:

- FA 204 The Spiritual Quest in Media, Myth, and Myself (only 4-credit course, not the Forest)
- MC 282 Video Production
- MC 284 Video Editing
- MC 300 Narrative 1
- MC 316 Creative Filmmaking (8 credits)
- MC 363 Web Design and Web Animation 1
- MC 365 Web Design and Web Animation 2
- MC 366 Graphic Design for Media and Communications
- MC 368 Graphic Design for the Web
- WTG 373 Graphic Narrative

To enrich their B.A. experience, students may take a course in Creative Musical Arts as an elective.

plus field trips

All majors will have the opportunity to take a 3–5 day field trip or longer each semester to a major metropolitan area to visit museums and galleries as part of their degree requirements. The cost of the field trips is approximately \$200–300, or more, per semester.

plus visiting artists

Students meet several times a year with visiting artists who come to campus at the invitation of the Department. These meetings may fall outside regular class times, including Sundays or weekends between courses, but attendance is a degree requirement.

plus successful completion of a portfolio (slides, CD-Rom, or videotape) review

Entrance Requirements for the Bachelor of Fine Arts Degree

Students interested in the B.F.A. program apply to the Department after completing a minor in Art (20 credits including Art in Nature, Understanding Art and Media or an art history course, and 3 studio courses), or the equivalent experience based on approval of the Department. Students entering the program may be asked to submit a portfolio documenting examples of previous course work. Admission to the B.F.A. program is

based on portfolio and GPA. Continued participation in the program requires a 3.0 GPA or higher.

Graduation Requirements for the Bachelor of Fine Arts (B.F.A.)

The requirements for the B.F.A. degree are 76 credits — 19 courses (a one-month course is worth 4 credits) as follows:

12 credits of these required second-year courses:

- FA 201 Art in Nature
- FA 203 Understanding Art and Media
- FA 205 Principles of Design

plus 8 credits from the following art history courses:

- FA 381 Prehistoric to Medieval Art
- FA 382 Renaissance to Contemporary Art
- FA 383 Nineteenth, Twentieth, and Twenty-First Century Art
- FA 384 Traditions of World Art

plus 4 credits of:

- FA 470 Contemporary Art and Criticism Seminar

plus 8 credits of:

- FA 301 Drawing 1
- FA 302 Drawing 2
- FA 304 Drawing Studio

plus 28 credits from the following (Courses cannot be repeated to fulfill credits for the B.F.A.):

- FA 141 Art and the Self
- FA 308 Screenprinting
- FA 311 Painting 1
- FA 312 Painting 2
- FA 316 Painting 3
- FA 331 Photography 1
- FA 332 Photography 2
- FA 338 Photo and New Media 1
- FA 339 Photo and New Media 2
- FA 341 Ceramics 1
- FA 342 Ceramics 2
- FA 343 Ceramics 3

- FA 344 Ceramics 4
- FA 351 Sculpture 1
- FA 352 Sculpture 2
- FA 353 Sculpture 3
- FA 355 Environmental Art
- FA 356 Sustainable Garden Design
- FA 373 Visiting Artist Studio
- FA 398 Fieldwork/Internship
- WTG 373 Graphic Narrative

Up to 20 credits in Media and Communications may be counted toward the 32 elective credits in the B.F.A., from these courses:

- FA 204 The Spiritual Quest in Media, Myth, and Myself
- MC 282 Video Production
- MC 284 Video Editing
- MC 300 Narrative 1
- MC 316 Creative Filmmaking (8 credits)
- MC 363 Web Design and Web Animation 1
- MC 365 Web Design and Web Animation 2
- MC 366 Graphic Design for Media and Communications
- MC 368 Graphic Design for the Web
- WTG 373 Graphic Narrative

To enrich their B.F.A. experience, students may take a course in Creative Musical Arts as an elective.

Plus 12 credits in one of these specialized areas to be taken during the spring semester of senior year:

- FA 485 Advanced Studio in Painting and Drawing
- FA 486 Advanced Studio in Sculpture
- FA 487 Advanced Studio in Ceramics
- FA 489 Advanced Studio in Photography
- Advanced studio courses in Media and Communications, approved by the Academic Advisor for the Art Department. For example: MC 285 Advanced Video Production, MC 323 Advanced Video Editing, and MC 380 Media Projects.

Plus in the final month of the Spring semester, 4 credits of:

- FA 390 Thesis Proposal

plus field trips

All majors will have the opportunity to take a 3–5 day field trip or longer each semester to a major metropolitan area to visit museums and galleries as part of their degree requirements. The cost of the field trips is approximately \$200–300, or more, per semester.

plus visiting artists

Students meet during the year with visiting artists who come to campus at the invitation of the Department. These meetings may fall outside regular class times, including Sundays or weekends between courses, but attendance is a degree requirement.

Plus successful completion of a portfolio (slides, CD-Rom, or videotape) review.

Graduation Requirements for the Bachelor of Fine Arts (B.F.A.) for B.A. Graduates

This program allows the holder of a Bachelor of Arts degree in Art to receive the B.F.A. degree in as little as one year. The degree requirements are slightly different for a graduate of Maharishi University of Management who will already have taken STC 108.

Students who have a B.A. in Art from Maharishi University of Management must complete:

- One Forest Academy course (2 credits) in each semester they are enrolled for at least 16 credits.
- 32 credits of Fine Arts courses including FA 414, and 16 credits of specialization as described below.

Students who do not have their B.A. degree from Maharishi University of Management must complete 36 credits, including the following courses:

- SCI 508 Graduate SCI (4 credits) (This course is the first course taken at the University and constitutes a prerequisite for all other courses.)
- Forest Academy course on the topic of Higher States of Consciousness (Spring) (2 credits)
- Passing grades in each semester's Development of Consciousness course
- FA 414 Artist as Philosopher: Critically Reading Visual Experience (2 credits)

Plus 28 credits in fine arts courses (16 credits of specialization and 12 credits of electives), as follows:

16 credits of specialization. This includes 12 credits in one of these specialized areas to be taken during the spring semester of senior year:

- FA 485 Advanced Studio in Painting and Drawing
- FA 486 Advanced Studio in Sculpture

- FA 487 Advanced Studio in Ceramics
- FA 489 Advanced Studio in Photography
- Advanced studio courses in Media and Communications, approved by the Academic Advisor for the Art Department. For example: MC 285 Advanced Video Production, MC 323 Advanced Video Editing, and MC 380 Media Projects.

Plus in the final month of the spring semester, 4 credits of:

- FA 390 Thesis Proposal

The remaining 12 or more credits in elective courses may be taken from among the following:

- FA 141 Art and the Self
- FA 204 The Spiritual Quest in Media and Myth
- FA 308 Screenprinting
- FA 311 Painting 1
- FA 312 Painting 2
- FA 316 Painting 3
- FA 331 Photography 1
- FA 332 Photography 2
- FA 338 Photo and New Media 1
- FA 339 Photo and New Media 2
- FA 341 Ceramics 1
- FA 342 Ceramics 2
- FA 343 Ceramics 3
- FA 344 Ceramics 4
- FA 351 Sculpture 1
- FA 352 Sculpture 2
- FA 353 Sculpture 3
- FA 355 Environmental Art
- FA 356 Sustainable Garden Design
- FA 373 Visiting Artist Studio
- FA 398 Fieldwork/Internship
- WTG 373 Graphic Narrative
- MC 282 Video Production
- MC 284 Video Editing
- MC 300 Narrative
- MC 316 Creative Filmmaking (8 credits)
- MC 363 Web Design and Web Animation 1
- MC 365 Web Design and Web Animation 2

- MC 366 Graphic Design for Media and Communications 1
- MC 367 Graphic Design for Media and Communications 2
- MC 368 Graphic Design for the Web
- WTG 373 Graphic Narrative

Entrance Requirements for the Post-Baccalaureate Certificate in Fine Arts

This post-baccalaureate certificate program is intended to provide an intensive fine arts studio experience to B.F.A. graduates who may need more studio time in order to prepare a portfolio for application to an M.F.A. program, or who need more experience working in their own studio to develop a body of work. All students will be encouraged to achieve a level of work that reflects an in-depth exploration during the two semesters of the program.

Graduation Requirements for the Post-Baccalaureate Certificate in Fine Art

The degree requirements are slightly different for a graduate of Maharishi University of Management who has already taken STC 108.

Students who have a B.F.A. from Maharishi University of Management must complete 36 credits including the following:

- One Forest Academy course (2 credits) in each semester where they are enrolled for at least 16 credits.
- Passing grades in each semester's Development of Consciousness course.
- FA 414 Artist as Philosopher: Critically Reading Visual Experience (2 credits)

26 credits of Fine Arts courses from among the following:

- FA 485 Advanced Studio in Painting and Drawing
- FA 486 Advanced Studio in Sculpture
- FA 487 Advanced Studio in Ceramics
- FA 489 Advanced Studio in Photography
- Advanced studio courses in Media and Communications, approved by the Academic Advisor for the Art Department. For example: MC 285 Advanced Video Production, MC 323 Advanced Video Editing, and MC 380 Media Projects.

Plus in the final month of the Spring semester, 4 credits:

- FA 390 Thesis Proposal

Students who do not have their B.F.A. degree from Maharishi University of Management must complete 36 credits, including the following:

- SCI 508 Graduate SCI (4 credits) (This course is the first courses taken at the University and constitute a prerequisite for all other courses.)
- Forest Academy course on the topic of Higher States of Consciousness (spring) (2 credits)
- Passing grades in each semester's Development of Consciousness course
- FA Artist as Philosopher: Critically Reading Visual Experience (2 credits)

Plus 24 credits in fine arts courses from among the following:

- FA 485 Advanced Studio in Painting and Drawing
- FA 486 Advanced Studio in Sculpture
- FA 487 Advanced Studio in Ceramics
- FA 489 Advanced Studio in Photography
- Advanced studio courses in Media and Communications, approved by the Academic Advisor for the Art Department. For example: MC 285 Advanced Video Production, MC 323 Advanced Video Editing, and MC 380 Media Projects.

Plus in the final month of the spring semester, 4 credits of:

- FA 390 Thesis Proposal

Graduation Requirements for the Minor in Art

To graduate with a minor, students must successfully complete 20 credits of course work as follows:

4 credits of one of these courses:

- FA 201 Art in Nature
- FA 141 Art and the Self

plus 4 credits of:

- FA 203 Understanding Art and Media

plus 12 credits of art courses.

Graduation Requirements for the Bachelor of Arts (B.A.) in Art with an Concentration in Creative Musical Arts

48 credits of art and music courses, including:

12 credits of required second-year art courses:

- FA 203 Understanding Art and Media
- FA 205 Principles of Design
- FA 301 Drawing 1

plus 8 credits from the following art history courses:

- FA 381 Prehistoric to Medieval Art
- FA 382 Renaissance to Contemporary Art
- FA 383 Nineteenth, Twentieth, and Twenty-First Century Art
- FA 384 Traditions of World Art
- FA 470 Contemporary Art and Criticism Seminar (highly recommended)

plus 4 credits of either:

- FA 341 Ceramics 1
- FA 351 Sculpture 1

plus 20 credits of music courses from among the following music classes and music lessons/ensembles:

- MC 330 Radio and Web Broadcasting
- MGT 232 The Music Business
- MUS 101 Basic Music Instruction
- MUS 103 Drumming from Within
- MUS 201 Intermediate Music Instruction
- MUS 202 Chamber Singers of Southeast Iowa
- MUS 203 Jazz Ensemble
- MUS 204 Jazz Combos
- MUS 205 A New Approach to Music Theory
- MUS 206 Musical Artist Development
- MUS 210 Songwriting
- MUS 215 Music, Consciousness, and Veda
- MUS 216 Sacred Music, Chants, and Recitations
- MUS 220 Music Appreciation
- MUS 221 Developing A Musical Ear
- MUS 225 Creative Music Technology
- MUS 231 World Music: Asia, Australia, and the Americas
- MUS 240 Basic Harmony and Keyboard Skills
- MUS 250 Movement Across the Arts 1
- MUS 251 Movement Across the Arts 2
- MUS 399 Directed Study

plus field trips

All majors will have the opportunity to take a 3–5 day field trip or longer each semester to a major metropolitan area to visit museums and galleries as part of their degree requirements. The cost of the field trips is approximately \$200–300, or more, per semester.

plus visiting artists

Students meet several times a year with visiting artists who come to campus at the invitation of the Department. These meetings may fall outside regular class times, including Sundays or weekends between courses, but attendance is a degree requirement.

COURSES

Undergraduate Courses

NOTE: Materials fees are an estimated cost for the supplies that the student needs to provide for that course. Lab fees are required payments that must be made before the class begins, or at the beginning of a class. Field trip fees are payable before the trip.

FA 141 Art and the Self: Awakening the Transcendental Basis of Artistic Genius by Expressing the Full Range of Life in a Self-Portrait

Students delve into the creative process with focus on the self-portrait. To learn about the history of the self-portrait, they view some of the most famous self-portraits in Western art by Dürer, Rembrandt, Van Gogh, Anguissola, Vigee-Lebrun, Kollwitz, Escher, and others. Then they create their own. Through lectures and readings on art by Maharishi, students come to appreciate art from the deepest perspective — that all art originates within the Self of the artist, and they verify this from their own experience as artists.

Topics include: principles of design and drawing. Students learn to use and combine the simple elements of line, shape, tone, and change of direction to foster self-expression. (2–4 credits)

FA 201 Art in Nature: Expressing Art from the Source of Natural Law through Interdisciplinary Exploration of the Beauty and Wonder of Nature

Students gain an appreciation for the mechanics of creation as experienced in the natural world and within the realm of one's own awareness as they engage in creative expression and the making of art. Through the experience of an ongoing interdisciplinary project, inspired by their observation of nature, students prepare a unique aesthetic presentation.

Topics include: drawing from nature, photographing nature, design and camouflage, math in nature, music in nature, the language of nature — Sanskrit, perceptual exercises, bird-watching, and earth and environmental artists, including Goldsworthy, Long, and the Harrisons. Materials fee: \$35. (4 credits)

FA 203 Understanding Art and Media: Culturing Aesthetic Sensibility by the Visual Arts and Media as Expressions of the Heart, Mind and Universal Self

Art and media are crystallizations of consciousness. This course cultures a deep appreciation for the arts through intellectual knowledge and direct experience. Slide

lectures, discussions, readings, and workshops reveal that art is structured in the multilayered consciousness of the artist and the audience, and in the collective consciousness of the culture. The greatest art works give glimpses of the goal of all creativity — the universal Self in higher states of consciousness — and thus continue to inspire people throughout time. Topics include: the fundamentals of art and media — creativity, form, function, and symbolism; the great achievements of sacred art; archetypes of consciousness in the arts; and traditional and contemporary approaches to evaluating and interpreting art and media. Course includes field trips to art museums and an artist's gallery. Field trip fee: \$45. (4 credits)

FA 204 CCTS: The Spiritual Quest in Media, Myth, and Myself—The Hero's Journey as the Development of Consciousness

Students explore their own spiritual quest in the light of the wisdom shared in great mythic stories, focusing on epics, mythology, and modern films. Drawing upon the insights of scholars of myth like Joseph Campbell, students identify the universal stages of the quest archetype: the hero's journey as he or she evolves to higher states of awareness. Students critically evaluate theories of consciousness and analyze how they can illuminate mythic stories and their own life. In the culminating course project, students create their own mythic stories that reflect their personal vision and the transformation of consciousness. Topics include: the power of myth, archetypal characters and events, the love story archetype, the inspiration of ancient epics and myths, adapting ancient stories to modern situations, plot structure and character development. Textbook fee: \$15 (4 credits) *Prerequisites:* STC 108, taken during students' first semester or with consent of the Department faculty

FA 205 Principles of Design: The Quest for Balance and Unity in Art and Life

This course provides the knowledge and practical experience of how visual elements are organized by principles universal to the fine and applied arts. Topics include: examining and applying design principles and vocabulary such as figure/ground, interdependence, symmetry, rhythm, shape, and texture; understanding how these principles and their components apply to the scope of the visual arts, including drawing, sculpture, ceramics, photography, graphic design, architecture, fabric design, and landscaping; and understanding and expressing how design principles can be correlated to the balance and order of the universe and to individual life and living. (4 credits)

FA 222 The Magic of Translucence: Creating Artworks that Mirror the Multilayered Nature of Existence through Layering Drawings, Mixed Media, Wax, and Photography

Much contemporary art uses layering and juxtaposition to create rich and allusive connections, expressing the multilayered nature of existence and knowledge. In this two-

week course students will develop two-dimensional artwork through layered translucent imagery. Students will create layers by drawing and transferring photographs and text onto various thin materials. Beeswax, or encaustic, can be the medium that renders a layer transparent as well as the “glue” that binds the layers together. Other methods such as acrylic gel will also be used. Using various techniques, subtle and diverse modes of representation will be overlaid to build meaning, allusion and surprising visual experiences culminating in new unified artworks. Lab fee: \$40 (2–4 credits)

FA 301 Drawing 1 — Drawing from Within: Engaging the Principles of Observation through the Action of Drawing

In this course, students develop powers of observation and imagination, abilities that are vital for all the arts. Students focus on establishing the use of principles of drawing through observational methods. Topics include: still life, figure drawing, interior and landscape. Art majors take drawing courses as they advance through the curriculum. May be repeated for credit with permission of the instructor. Materials fee: \$35. (1–4 credits)

FA 302 Drawing 2: Drawing from Within: Exploring New Materials and Possibilities for Self-Expression

Students learn to use the power of drawing to convey a story, thus revealing in a visual narrative the sequential unfoldment of consciousness. Students engage the fundamental principles of drawing while introducing a variety of methods and materials; this sustains aesthetic unity while encouraging diversity in the discovery process and the resulting image. Taught in an open studio situation, the course allows the teacher to address both the general needs of the group and the specific needs of the individual student to advance in the experience of drawing as a means of self-expression. Materials fee: \$35. (1–4 credits)

FA 304 Drawing Studio: Exploring Alternate Viewpoints

Students explore drawing with an emphasis on process, and its result, as a response to nature and the environment. Different applied viewpoints may include: illustration, graphics, animation, architecture, site-specific sculpture, industrial design, painting, and sculpture. The theme of the course depends on the instructor. Materials fee: approximately \$75, which includes field trips. (1–4 credits) *Prerequisites:* one of these courses: FA 301, FA 201, FA 351, FA 532 or FA 205

FA 308 Screenprinting: Exploring the Multiple Image

Students explore images through silkscreen printing. The emphasis is on learning the process and developing possibilities with a multiple image derived from drawn, painted, collaged, printed and photographed images. Different applied viewpoints may include: illustration, graphic design, painting, sculpture, and ceramics. Materials fee:

approximately \$30. (4 credits) *Prerequisites:* one of these courses: FA 205, 301, 304, 311, 331, or 361.

FA 311 Painting 1: Growth of the Artist through Refinement of Perception and Enhancement of the Ability to Discriminate and Integrate

Painting expresses the artist's connection with the deep laws fundamental to seeing and creating visual images. Students are immersed in the fundamentals of drawing and painting from nature and a variety of other subject matter. The curriculum addresses the students' development of formal and technical skills along with a conceptual and critical understanding of the language of painting as preparation for independent studio work. May be repeated for credit with permission of the instructor. (1–4 credits) *Prerequisite:* a previous art course and consent of the instructor

FA 312 Painting 2: Growth of the Artist through Refinement of Perception and the Expansion of Flexibility, Subtlety, Expression, Spontaneity, and Evenness by Means of the Brush

Painting expresses the artist's connection with the deep laws fundamental to seeing and creating visual images. Students are immersed in the fundamentals of drawing and painting from nature and a variety of other subject matter. The curriculum addresses the students' development of formal and technical skills along with a conceptual and critical understanding of the language of painting as preparation for independent studio work. May be repeated for credit with permission of the instructor. (1–4 credits) *Prerequisite:* a previous art course and consent of the instructor

FA 316 Painting 3: Growth of the Artist through Refinement of Perception and the Expansion of the Methods and Materials of Painting

Painting expresses the artist's connection with the deep laws fundamental to seeing and creating visual images. Students are immersed in the fundamentals of drawing and painting from nature and a variety of other subject matter. The curriculum addresses the students' development of formal and technical skills along with a conceptual and critical understanding of the language of painting as preparation for independent studio work. May be repeated for credit with permission of the instructor. (1–4 credits) *Prerequisite:* a previous art course and consent of the instructor

FA 331 Photography 1 — Capturing Moments of Light: Learning the Essentials of the Darkroom and Appreciating Photography as a Tool for Refined Artistic Expression

Students learn to use the photographic medium as a tool for exploring and expressing the finest values of awareness. Students develop their work by learning basic camera techniques and darkroom procedures, while they are also introduced to a broad range of fine art photography. Students are provided with a 35mm camera. May be repeated for

credit (with more advanced projects) with permission of the instructor. Lab fee: \$150–\$200 (1–4 credits)

FA 332 Photography 2 — Capturing Moments of Light: Developing Photography as a Tool for Refined Artistic Expression

Students learn to use the photographic medium as a tool for exploring and expressing the finest values of awareness. Students develop their work by learning basic camera techniques and darkroom procedures, while they are also introduced to a broad range of fine art photography. Students are provided with a 35mm camera. May be repeated for credit (with more advanced projects) with permission of the instructor. Lab fee: \$150–\$200 (1–4 credits) *Prerequisite:* FA 331 or consent of the instructor

FA 338 Photography and New Media 1: Exploring the Boundaries of Photography, Technology and Consciousness

Students explore the basics of digital image-making through traditional photographic methods (aperture, shutter speed, focus, film speed) while being introduced to a variety of techniques to manipulate and alter the digital image. The use of scanners, digital cameras, tablets and software programs such as Photoshop and Illustrator, present a powerful capacity for the artist to create an integrated language of self-expression that starts with the photograph. One of the main goals for the course is for the student to become comfortable moving back and forth between digital and real-world, hand-made methods of image-making. Learning to integrate digital techniques with the richness of texture and layers available from real-world materials allows the student to add a level of depth that cannot be achieved with digital techniques alone. The course is structured through a series of short exercises to introduce photography, digital software and digital manipulation techniques. Students then explore a series of work that shows a clear progression and development of techniques and themes. Topics include: digital vs. physical methods of image-making, how the integration of digital and physical methods affect image-making and meaning, image transfer techniques, photo-manipulation techniques. Lab fee: \$30. (4 credits)

FA 339 Photography and New Media 2: Integrating Photography, Technology and Consciousness

This course explores the outer boundaries of photography by integrating traditional photography methods (aperture, shutter speed, focus, film speed) with new possibilities presented by using the computer to explore layering, adding text, hand drawing, or other digital manipulation. The use of scanners, digital cameras, tablets and software programs such as Photoshop and Illustrator, present a powerful capacity for the artist to create an integrated language of self-expression that starts with the photograph. Students will harness the power of both digital tools and physical methods of making to create works

that satisfy their artistic aspirations. For example, work could be done mostly in the digital realm while being supplemented and enriched by hand-drawing, scanned items/textures, etc., or the computer could be used just as a way to research and test images that then are created in the physical world. Students explore and refine their creative process in a series of work that shows a clear progression and development of techniques and themes. Topics include: appropriate use of digital techniques, the photograph vs. reality, how meaning relates to methods of image-making, how photo-manipulation affects meaning, presentation of work to the public. Lab fee: \$50 for materials. (4 credits) *Prerequisites:* FA 338 or consent of the instructor.

FA 341 Ceramics 1 — Shaping the Unmanifest: Clay Forming, Glazing and Firing through Handbuilding Methods

Students learn the entire process of ceramics from making clay to firing pottery, providing them with the basic skills necessary to express consciousness in matter in this medium. Topics include: addressing the vessel with handbuilding methods such as pinch, coil and slab construction; basic glazing methods; earthenware, stoneware, and raku firing methods; examples from the history of ceramics. Lab fee: \$45. (4 credits)

FA 342 Ceramics 2 — Shaping the Unmanifest: Throwing Pottery Forms on the Wheel

Wheelthrowing opens a new dimension of experience for the student potter. The challenge to center and form a pot while the clay is spinning through the hands leads to a synchronicity that powerfully connects potter and pot, consciousness and matter, in the process of creation. This intensive course focuses on establishing the student's basic wheelthrowing skills with simple forms. Topics include: addressing form, glazing and function in wheel work. Lab fee: \$45. (4 credits) *Prerequisite:* FA341 or consent of the instructor

FA 343 Ceramics 3 — Shaping the Unmanifest: Integration of Surface and Form through Enlivening Color and Pattern

The integration of surface and form is a further development of the connection of inner and outer aspects of the ceramic form. Students continue to develop and integrate handbuilding and wheelthrowing methods of forming. Topics include: specific focus on exploring glaze, and surface possibilities such as drawing, color, texture, and their relation to the aesthetic and functional components of ceramics; examples from the history of ceramics. Lab fee: \$45. (4 credits) *Prerequisite:* FA 341 and FA 342 or consent of the instructor

FA 344 Ceramics 4 — Shaping the Unmanifest: Developing Sculptural Possibilities in Ceramic Form

Sculpture has a natural relationship with the development of ceramics in that it extends the 3-dimensional play and enriches the possibilities of storytelling — consciousness revealing its process of unfoldment — in clay forms. Topics include: focusing on the various visual, functional and conceptual considerations (including tile, bas relief, freestanding form, and installation) that take ceramics in a sculptural direction. Lab fee: \$45. (4 credits) *Prerequisites:* FA 341 and FA 342 or consent of the instructor

FA 351 Sculpture 1 — Bas Relief: Breathing Life into Matter

By exploring organic forms and creating designs from imagination, students make original sculptural surfaces that emerge from a two-dimensional plane. Exercises that expand the capacity to envision and create give students a deeper appreciation of the nature, creation, and function of sculpture, and thus the opportunity to express the fundamental laws that structure form in the natural world. Topics include: low, middle and high relief; organizing principles of two and three-dimensional design (balance, rhythm, economy, etc.); light and shadow; transforming clay reliefs into plaster reliefs; the history of relief sculpture. Materials: paper/cardboard, clay and plaster. Materials fee: \$40. (4 credits)

FA 352 Sculpture 2 — The Portrait: Mirroring the Self

Students continue the exploration and expression of form on a more personal level — they have the opportunity to mirror the different layers of their own consciousness in lifelike self-portraits. Students experience the controlled creation and evolution of their portrait as they sculpt in clay, transform the portrait into plaster, and cast the finished work in porcelain. Topics include: drawing the portrait (contour and tonal); sculpting the portrait; working from observation; organizing principles of three-dimensional design; proportion; form relationships; making plaster molds; slip casting; photographing sculpture; and the history of portrait sculpture. Materials: clay, plaster, and porcelain slip (liquid clay). Materials fee: \$40. (4 credits) *Prerequisite:* FA 351

FA 353 Sculpture 3 — The Figure: Embodying the Fullness of Consciousness

This course emphasizes sculpting the human figure, which has the potential to embody the fullness of consciousness within the cosmos. Students continue to explore the principles that structure form. In addition, they develop skills and gain the technological know-how for sculpting, mold-making, casting, making limited editions, and mass production. Topics include: drawing the figure (contour and tonal); principles of three-dimensional design; making an armature; sculpting the figure in clay; working from observation; form/space relationship; proportion; anatomy (skeletal and musculature); mold-making, casting slip (liquid clay); the history of figure sculpture. Materials: clay, plaster and slip. Materials fee: \$40. (4 credits) *Prerequisites:* FA 351 and FA 352

FA 355 Environmental Art: Harmoniously Enriching and Giving Meaning to the Environment

In this studio course students gain knowledge of earthworks and land art from prehistoric civilizations to today's contemporary artists, including Stonehenge, the Adena Serpent Mound, Robert Smithson's Spiral Jetty, Maya Lin's Wave Field and Viet Nam Memorial, Christo's Running Fence, etc. Working individually and as a group, students explore a number of assignments/projects and create environmental art that considers the delicate balance between form, function and place. Course Fee: \$25. (4 credits)

FA 356 Sustainable Garden Design

This course will look at various techniques to create sustainable, low-maintenance small-scale gardens. Some topics that will be covered are site analysis, rain water harvesting, proper plant selection, best plants for southeast Iowa, permeable paving, and good maintenance practices. The focus will be on design practices that are easily implemented at the residential level but we will also look at designs for various kinds of small-scale spaces for inspiration. The student will create a design for a site of their choice that applies the knowledge introduced in the course. Lab fee: \$20 (4 credits)

FA 357 Alternative Approaches to Sculpture: Engaging Infinite Correlation

This course will allow students to explore possibilities of alternative conditions for making sculpture. Through the use of event-based and performative processes, students will ask questions and experiment with the balance of control and freedom in the creative process as well as the occurrence of art forms that seem to happen spontaneously and seemingly in the absence of any obvious design. Consideration of form, process, and idea will play an important role in structuring each student's creative method. Art historical references include: John Cage's experimental processes, fluxus events, collage, readymade, performance and participatory artwork. Class hours will be split between hands-on fabrication, group-discussion, and critique. Materials fee: \$50 (4 credits)

FA 373 Visiting Artist Studio: Exploring the Relationship of Parts to Whole in the Work of Art

This is an opportunity to study with visiting faculty who present topics in two-dimensional, three-dimensional, time-based and/or new media disciplines. The course is tailored to all levels — beginning through advanced. Topics include: formal and conceptual approaches, contrasting contemporary with historical viewpoints, exploring materials, tools, and methods, and developing the creative process. This course will emphasize the development of a broad comprehension and the ability to focus — the relationship of parts to whole in the work of art. (1-4 credits)

FA 381 Prehistoric to Medieval Art: Discovering the Eternal Quest for Immortality in Western Sculpture, Painting, and Architecture

Students explore the great achievements of art and architecture in prehistoric cultures and in the ancient civilizations of Egypt, Greece, Rome, Byzantium, and the European Middle Ages. In each of these cultures, the quest for immortality created art that continues to inspire human consciousness. Students examine how contemporary artists have been influenced by art from these periods. Students explore a topic of their choice in a research paper. Topics include: sacred sites that connected humanity with the cosmos, the Mother Goddess archetypes in art and culture, the development of styles in Egyptian and Greek art and how they mirror stages in the evolution of consciousness, and the creation of a heavenly kingdom on Earth in Christian art and architecture. A highlight of the course is a 4-5 day field trip to a major art center such as New York, St. Louis or Kansas City. Field trip fee: \$195 (or more). (4 credits)

FA 382 Renaissance to Contemporary Art: The Search for Integration in Art and Life from the Renaissance to Modernism and Post-modernism, including an Emerging Art of Expanded Awareness

Students focus on the most inspiring creations of Western art and architecture from the 1400s to the twenty-first century. They discover how artists have expressed both sacred and secular values in their quest for perfection in art and fulfillment in life. This epoch's vast amount of art is comprehended in terms of cultural paradigms: the culture's worldview and its ideal of art. The four major paradigms covered are: Renaissance, Modernism, Deconstructive Post-modernism, and Revisionary Post-modernism — an art of expanded awareness. Topics include: the transformation of art and consciousness in each paradigm; the integration of spirit and matter in Renaissance art; how the art of the past has influenced modern artists; and the artists, styles, symbols, cultural values, and aspects of awareness expressed in the major paradigms. A highlight of the course is a 4-5 day field trip to a major art center such as Chicago. Field trip fee: \$195 (or more). (4 credits)

FA 383 Nineteenth, Twentieth and Twenty-First Century Art: Awakening to the Search for Self-Realization

Students focus on major artists from the late nineteenth to the twenty-first century. Students explore how modern art and culture express a quest for self-realization in higher states of consciousness. Topics include: the search for transcendence in the art and theories of modern artists; the phase transitions from traditional art to modern art, post-modern art, and a visionary art of the future. A highlight of the course is a 4-day field trip to a major art center such as Chicago. Field trip fee: \$195 or more. (4 credits)

FA 384 Traditions of World Art: Exploring Ancient Art that Transcends Time and Place by Embodying the Wholeness of Life

Students journey through the glorious traditions of world art, including Indian, Chinese, Islamic, African, and Native American art. All traditions reflect both unique cultural values and universal values, such as the aspiration to embody the wholeness of life in higher states of consciousness. Students also explore how the arts of these cultures continue to inspire modern artists. Students will explore a topic of their choice in a research paper. Topics include: The world views of traditional cultures compared to the world view of the modern West; the nature and functions of sacred art; and the embodiment of forces of nature in Indian art, Taoist and Buddhist painting and sculpture, Islamic design and architecture, African masks and ritual objects, and Native American art and artifacts. A highlight of the course is a 4-day field trip to a major art center such as Chicago or Kansas City to experience original world art in person. Field trip fee: \$195 (or more). (4 credits)

FA 398 Fieldwork/Internship: Applying Studio Knowledge in Practical Situations to Strengthen Action, Achievement, and Fulfillment

Students study or apprentice with an artist or art-related professional or facility, with the approval of their major advisor. Students document their experiences in sketchbooks and journals, and connect what they are learning to their knowledge and experience of consciousness. Fieldwork must be completed at least two months before graduation. (1–4 credits) *Prerequisite:* consent of the art faculty

FA 399 Art Directed Study: Knowledge Is Structured in Consciousness

Directed study courses are offered in rare circumstances to advanced and academically self-sufficient students who need a course to graduate and are unable to take the regular course due to extraordinary circumstances. (variable credits) *Prerequisite:* consent of the art faculty

FA 414: Artist as Philosopher (Critically Reading Visual Experience): Approaching an Integrated Whole

FA 470 Contemporary Art and Criticism Seminar: Deepening Artistic Experience and Intellectual Understanding for Creative Growth

Students examine the vocation, role, and responsibility of the contemporary artist and art critic in the light of their own artistic aspirations. This seminar focuses primarily on contemporary art and art criticism to develop the integration of intellectual understanding and studio practice. The concentrated experience of reading and writing about art cultures the habit of going more deeply into the substance of works of art, which nurtures the

ability to more clearly apply and realize the highest values of visual expression. A highlight of the course is a field trip to a major art center, such as Chicago, Los Angeles or New York. Field trip fee: \$250–500 (or more). (4 credits)

FA 483 BFA Advanced Contemporary Studio 1, 2, &3: Connecting the Parts to the Whole

Advanced students work with an idea-based structure that allows them to go deeply into their work at the final stage of their degree requirements. This course is designed to forward studio work by capitalizing on students' strengths through intensified pure studio time coupled with personal contact with faculty. During these months the student connects thinking with action in the thesis statement and receives direct support for presentation, installation and documentation of thesis work. Required for BFA degree. Offered in spring semester only. No lab fee. Materials costs will vary with the student. (4 credits)

FA 485 Advanced Studio in Painting and Drawing: Finding a Personal Voice in the Language of Painting and Drawing

Students have the opportunity to build on the experience of previous painting courses through the further development and deeper understanding of their own expression with paint. The focus of this course is to allow the student to form a strong personal direction and develop a personal conceptual framework in their studio exploration in painting. Topics include: exploring different methods and materials in painting, research in the history and current developments in the field of painting. Lab fee: \$45. (4 credits — may be repeated for credit) *Prerequisites:* FA311, FA312, and FA 313.

FA 486 Advanced Studio in Sculpture: Finding a Personal Voice in the Language of Sculpture

Students have the opportunity to build on the experience of previous sculpture courses through the further development and deeper understanding of their own expression in three-dimensional form. The focus of this course is to allow students to form a strong personal direction and develop a personal conceptual framework in their studio exploration of 3D media. Topics include: exploring advanced methods and materials in clay, plaster, wax, resin, etc. Students will also be engaged in researching the history and current developments in the field of sculpture. Lab fee \$35 (4 credits — may be repeated for credit) *Prerequisites:* FA 341, 342, and 343

FA 487 Advanced Studio in Ceramics: Finding a Personal Voice in the Language of Ceramics

Students have the opportunity to build on the experience of previous ceramics courses through the further development and deeper understanding of their own expression in

clay. The focus of this course is to allow the student to form a strong personal direction and develop a personal conceptual framework in their studio exploration in ceramics. Topics include: exploring advanced methods and materials in clay and glaze, firing kilns, research in the history and current developments in the field of ceramics. Lab fee \$45. (4 credits — may be repeated for credit) *Prerequisites:* FA 341, 342, and 343

FA 489 Advanced Studio in Photography: Finding a Personal Voice in the Language of Photography

Students have the opportunity to build on the experience of previous photography courses through the further development and deeper understanding of their own expression using photographic media. The focus of this course is to allow the student to form a strong personal direction and develop a personal conceptual framework in their studio exploration, with the goal of producing a cohesive body of work. Topics include: exploring and refining photographic methods and materials, as well as research in the history and current developments in the field of photography. Lab fee: \$150 (or more) (4 credits) *Prerequisites:* FA 331, FA 332

Graduate Courses

We do not currently offer a graduate program. Occasionally we will offer graduate-level courses to qualified students.

FA 591 Directed Study in Art Applications: Applying Knowledge to Structure Success in the Arts

In this course, the student covers material selected by the faculty according to the needs and program of study of the student. (1–2 credits — may be repeated for credit)

DEPARTMENT OF BUSINESS ADMINISTRATION

FACULTY

- Victoria Alexander Herriott, J.D., LL.M., Co-chair, Associate Professor of Law and Government
- Scott R. Herriott, Ph.D., Co-chair, Professor of Management, Dean of the College of Arts and Sciences
- Kenneth Cavanaugh, Ph.D., Emeritus Professor of Applied Statistics
- Dennis P. Heaton, Ed.D., Professor of Management, Director of the Ph.D. Program, Dean of International Programs
- Yunxiang Zhu, MBA, D.W.P. (*honoris causa*), Professor of Management, Vice-President of Asian Expansion
- Andrew Bargerstock, Ph.D., CPA, Associate Professor of Management, Director of the MBA Program
- Anil Maheshwari, Ph.D., Associate Professor of Management Information Systems
- Rachel Goodman, Ph.D., Associate Professor of Management, Director of Career Development, Director of the Minor in World Peace
- Jane Schmidt-Wilk, Ph.D., Associate Professor of Management
- David Goodman, Ph.D., Associate Professor of Management, Director of the BA program
- William W. Graff, MBA, CPA, CMA, Assistant Professor of Accounting
- Bruce McCollum, Ph.D., Assistant Professor of Management
- Sabita Sawhney, MBA, Assistant Professor of Business Administration
- Richard Thompson, Ph.D., Assistant Professor of Management, Associate Dean of International Programs
- Steven Totino, MBA, CPA, Assistant Professor of Accounting
- Kenneth West, MBA, Assistant Professor of Management
- Ravi Subramaniam, MBA, Instructor of Accounting
- Ye (Lin-lin) Shi, MBA, Instructor of Accounting

INTRODUCTION

The Department of Business Administration offers a Bachelor of Arts in Business, a Master of Business Administration, and a Ph.D. in Management. Each of these degree programs is oriented toward the achievement of specific student learning outcomes through active learning projects that take the student into the real world of business.

The bachelor's program develops the knowledge needed by an entrepreneur and culminates in the presentation of a business plan developed by the student. In the MBA program, students apply their knowledge to improve the performance of an organization through a specialization in sustainable business with options for additional specialization in business process improvement, accounting, and human resource development. The Ph.D. in Management prepares researchers who can enrich the understanding and practice of sustainable business with new knowledge about the highest levels of performance for the individual, the team, and the organization as a whole.

All of these programs are taught in the light of Maharishi Vedic ManagementSM — the knowledge of the total intelligence of nature and its organizing power. The founder of our university, Maharishi Mahesh Yogi, showed that natural law automatically manages the infinitely complex and evolving universe without strain and without mistakes. By studying the theoretical and practical aspects of Maharishi Vedic Management, including the Transcendental Meditation program, students personally grow in better health, clearer thinking, greater creativity, moral development, and wisdom. They integrate the study of contemporary developments in the discipline with the practice of the Transcendental Meditation program and their experience of the source of the infinite organizing power of natural law, which is available in the most settled state of any person's awareness.

Research has shown that a natural result of the practice of the Transcendental Meditation technique is an appreciation for one's environment and more harmonious interpersonal relationships. As a result, students in the business department have a broadened awareness of their place in the world and understand the importance of making a positive, sustainable contribution to society.

SPECIAL FEATURES

- **Case Studies and Entrepreneurship** — The programs and courses of the Department of Business Administration are oriented around real-world, active learning projects. Undergraduate majors write business plans for their own entrepreneurial ventures. Students in the MBA program consult with local businesses and organizations to improve their business processes and measure and improve their sustainability.

- **Ethics and Sustainability** — The curriculum explores issues of ethical integrity, social responsibility, and environmental sustainability to prepare business leaders to be stewards of society and the environment.
- **Management by Natural Law** — Management training at Maharishi University of Management makes use of the latest discoveries about how natural law administers all levels of creation, and trains students to gain the support of nature, good fortune, to enable them to most easily fulfill their goals.
- **Enlightenment and World Peace** — Maharishi University of Management is the leading university in the world specializing in development of human consciousness. It is an ideal place to learn how to create and study the transformation of organizations and society through developing and utilizing full human potential.

BACHELOR OF ARTS IN BUSINESS ADMINISTRATION

Courses in the business curriculum encompass an international perspective to help prepare graduates to function effectively in the world's varied cultural and business settings. Students are trained to be broad thinkers, harmonious contributors to teams, and experts in creative change. The undergraduate courses are grouped into three modules. In Module I, *Skills for Success in Personal and Professional Life*, students learn practical skills for successful functioning in the modern world. In Module II, *Business Foundations*, students grow in knowledge of the legal, economic, and social environment of business life. In Module III, *Entrepreneurship*, students gain knowledge and the experience of starting and growing companies by studying and creating business plans.

Entrance Requirements for the Business Major or Minor

Before taking any courses in the management major or minor, students must successfully complete or waive College Composition II (WTG 192). A course in statistics (MGT 314) is a prerequisite for the Entrepreneurship Module.

Graduation Requirements for the Bachelor of Arts Degree in Business

To graduate with a B.A. in Business, students must successfully complete all general requirements for the bachelor's degree. (Please refer to "Degree Requirements" in "Academic Policies.") As part of these requirements, 52 credits of course work in business administration must be completed as follows:

The required undergraduate courses are grouped into three sequential modules. In the *Skills for Success in Personal and Professional Life* module, students learn practical skills for successful functioning in the modern world. In the *Business Foundations* module, students grow in knowledge of the legal, economic, and social environment of

business life. In the *Entrepreneurship* module, students gain knowledge and experience of starting and growing companies by studying and creating business plans.

Required: Four courses (14 credits) in *Skills for Success in Personal and Professional Life*

- MGT 201 Business Communication Skills
- MGT 220 Current Topics in Sustainable Economics
- MGT 314 Statistics for Business and the Environment
- one Forest Academy course (FOR 101 or higher) on a business-related subject such as Vedic Management, leadership, or creativity (2 credits)

MGT 200 Principles of Business Success is recommended but not required.

Required: Five courses (20 credits) in the *Business Foundations* module

- MGT 350 Financial Management
- MGT 378 Marketing Management
- MGT 382 Management and Organization
- MGT 428 Business Law and Ethics
- MGT 429 Human Resource Management

Required: Five courses (18 credits) in the *Entrepreneurship* module

- MGT 315 Financial Accounting
- MGT 346 Career Strategies (2 credits)
- MGT 402 Managing for Sustainability
- MGT 404 Managerial Accounting
- MGT 432 Entrepreneurship Project

Students may interview for business positions and earn up to 16 elective credits of internship toward their bachelor's degree with the approval of the BA program director. Students at Maharishi University of Management have a particular advantage in the competition for internships nationwide. The block calendar of month-to-month study makes it easy for a student to take off one or more months and work full-time on a business project at any time of the year. Such internships are an opportunity for students to apply the knowledge gained in the Business Administration major in a workplace setting.

Graduation Requirements for the Minor in Business

To graduate with a minor in business, students must complete 20 credits of course work in business including MGT 200 Principles of Business Success.

Graduation Requirements for the Minor in Government

To graduate with a minor in government, students must complete 20 credits of course work consisting of *at least 8 credits of* government (GOV) courses. Eligible MGT courses are those in the following list:

- MGT 340 International Law
- MGT 414 Taxation
- MGT 428 Business Law and Ethics
- MGT 429 Human Resource Management
- MGT 484 Mediation and Negotiation
- SL—G370 Environmental Law

Graduation Requirements for the Minor in World Peace

To graduate with a minor in world peace, students must complete:

- GOV 290 Collective Consciousness and World Peace, and
- MVS/GOV 380 The Individual as the Unit of World Peace

plus 12 credits of course work from the following:

- GOV 280 International Relations and Peace
- LIT 207 The Bhagavad-Gita
- LIT 366 The Peace Film
- LIT 370 Literature and the Environment
- MGT 340 International Law
- MGT 402 Managing for Sustainability
- MGT 403 World Peace Project
- MGT 405 Cross-Cultural Communication
- MGT 484 Mediation and Negotiation
- MVS 302 Bhagavad-Gita — Chapters 1–3
- MVS 303 Bhagavad-Gita — Chapters 4–6
- MVS 304 Application of Maharishi Vedic Science
- MVS 307 Practicum in Maharishi Vedic Science
- MVS 330 *Transcendental Meditation-Sidhi* Course
- SL—P101 Sustainable Global Environment

Entrance Requirements for a Certificate in Business Studies

Any student with a high school diploma and a GPA of 2.5 is eligible to apply for a Certificate in Business Studies.

Graduation Requirements for a Certificate in Business Studies

To receive a Certificate in Business Studies, students must complete 18 credits.

This includes:

- STC 108 (6 credits)
- Any three undergraduate MGT courses (12 credits)

Students will also be expected to follow the Development of Consciousness requirements while they are enrolled in the certificate program.

MASTER OF BUSINESS ADMINISTRATION DEGREE

Maharishi University of Management offers the MBA degree in various formats for different types of students. Those who take the MBA in the standard format at the Fairfield campus may earn the MBA in Sustainable Business. Other programs available on the Fairfield campus are an evening/weekend program with various specializations and an accelerated MBA for professional accountants. The University also offers options for part-time study and an accelerated MBA program for experienced professionals, managers and leaders.

MBA in Sustainable Business

Because society increasingly recognizes the importance of sustainability, new opportunities abound, but an entrepreneurial approach is necessary to recognize and implement them. The curriculum of Maharishi University of Management offers a range of business courses to train students to create new businesses that offer life-sustaining products and services. Issues of ethical integrity, social responsibility, and environmental sustainability are integrated into all the business courses.

Maharishi University of Management embraces the vision that business can be “green both ways,” making money and operating in harmony with Nature. Examples of green business and “natural capitalism” — often referred to as “the next industrial revolution” — are integrated throughout the MBA curriculum.

At Maharishi University of Management, the theme of sustainability has five key components:

- *Self Sustainability* — Developing your full mental potential, physical health, and leadership abilities through Consciousness-Based education
- *Sustainable Entrepreneurship* — Creating successful “green” businesses that produce real value for society

- *Sustainable Business Solutions* — Learning techniques of continuous process improvement to sustain business success—serving the evolutionary needs of customers while eliminating waste for the business and the environment
- *Sustainable Management* — Practicing the interpersonal and organizational skills needed to successfully carry out transformational change
- *Sustainable Living* — Gaining advanced knowledge and experience in renewable energy production, renewable fuels, energy-saving devices and methods, organic agriculture, waste management, and the other principal fields of sustainable living

The MBA is a general management degree requiring a minimum of 42 graduate credits. For students with no prior study in business, the MBA includes 18 credits of additional study in the various business *functions*: managing people and organizations, accounting, finance, marketing, operations, and business law, for a total of 60 credits.

The heart of the MBA consists of a specialization in one field or concentrations in a few fields. Every student must complete either a cross-functional specialization of at least 16 credits or three functional concentrations amounting to 18 credits. The specialization in sustainable business is offered every year. Other specializations and concentrations offered in any given year will depend on student demand. Popular areas of advanced study in the recent past have been *Business Process Improvement, Accounting, Marketing, International Business, and Human Resource Development*.

Evening-Weekend MBA Program

This program offers an opportunity for students to earn their MBA degree while working full-time in an internship position at Maharishi University of Management or with a local company. At the Fairfield, Iowa campus, these students take 26 credits per year in the evenings and on weekends rather than the normal 44 credits per year for daytime students. By studying in the evenings, their internship work during the day becomes a form of curricular practical training for which they can get academic credit by integrating and applying the knowledge they learn in class. As a result, this program can be completed in two and a half years.

Accounting Professionals MBA Program

The Accounting Professionals program is one of the accelerated MBA programs offered to experienced business people. It requires seven months of study on campus and two years of distance education at a quarter-time speed while working full-time. This 53-credit program is designed for students with a strong academic background and professional experience in accounting. The course work for the MBA builds on this background and is intended to prepare students for a career as a Certified Management

Accountant (CMA) or Certified Public Accountant (CPA). A distance education component at the end of the program also gives students the opportunity to get practical experience.

Executive MBA Program

Like the Accounting Professionals Program, the Executive MBA is an accelerated version of the MBA, requiring at least 50 credits, that is designed for experienced managers and policy makers and offered typically in a cohort format. At the request of a client organization, the faculty of Maharishi University of Management can create specialized tracks of the MBA program tailored to the needs of a specific corporation, nonprofit, or public sector organization.

Entrance Requirements for the Master of Business Administration Degree

The Master of Business Administration (MBA) degree is offered in a Standard Format for students without specific training or work experience and in two accelerated MBA formats that have more restrictive admission requirements and permit the completion of the degree with a lower number of total credits, typically in two years of part-time study.

MBA Standard Format

Applicants must have a four-year bachelor's degree or the equivalent in formal training and work experience. Acceptance is based upon the quality of undergraduate performance, aptitude test scores, work experience and other achievements. A TOEFL score of at least 550 (paper-based) or 213 (computer-based) is required if a student's native language is not English. English assessment by the Maharishi University of Management Admissions Office may be substituted for the TOEFL test. The Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) is recommended but not required. Before enrolling for the first semester of the MBA, students should be familiar with principles of economics from a prior college course or from reading a principles of economics textbook. Knowledge of college algebra is strongly recommended for acceptance into the program. Students who do not have the prerequisite knowledge of mathematics will be required to take MGT 417 Mathematics for Business in a summer session prior to their first semester or as a foundational course.

Graduation Requirements for the MBA Degree

MBA students must complete a total of 60 semester-hour credits, consisting of 18 credits to fulfill the MBA Distribution Requirement and 42 credits in specialization, concentration, university requirements, and elective courses, as follows.

University Requirement (6 or more credits)

To graduate with an MBA, students must successfully complete all general requirements for a master's degree, including the introductory course MVS 500 *Science of Creative Intelligence* (4 credits) in the first semester at Maharishi University of Management or its equivalent STC 508 Science and Technology of Consciousness and one Forest Academy course (1–2 credits, designated FOR in the catalog) in each subsequent semester. (Please refer to “Degree Requirements” in “Academic Policies.”)

MBA Distribution Requirement (18 credits)

As a preparation for meeting the requirement of a specialization or several concentrations, each MBA student must demonstrate a basic competence in the foundational fields of business. This is demonstrated by having a *total of 18 credits* earned by taking at least 2 semester-hour credits in each of *five of the following seven* fields:

- Marketing
- Accounting
- Financial management
- Business law and ethics
- Leadership, the management of people or organizations
- Management of operations or quality
- Sustainable business.

Students may fulfill the MBA Distribution Requirement in whole or in part by having completed equivalent undergraduate course work at an accredited university and earned a grade of at least B.

Students who have taken graduate course work in business administration at another university and have not used those credits for a degree may apply to have those credits transferred to Maharishi University of Management and used as specialization, concentration or elective credits, up to a maximum of 20 credits.

MBA Depth Requirement: Specialization or Concentrations (16–18 credits)

All MBA students in the Standard Format program must complete either a specialization or three concentrations. A specialization is a depth of study in one cross-functional field consisting of at least 16 credits. Examples of specialization topics are business process improvement, sustainable business, entrepreneurship, accounting, international business, public management, or industry-specific focuses such as communications & media, telecommunications, health care administration, and so on. Each specialization must include a seminar or capstone course in which there is a substantial requirement of research and writing. Specializations will be noted on the student's transcript and diploma. Examples of two specialization options are shown below.

Specialization Courses in Sustainable Business

- MGT 5010 Organizational Change for Sustainability (2–4 credits)
- MGT 5165 Metrics for Sustainability (2–4 credits)
- MGT 5310 Sustainable Technologies (2–4 credits)
- MGT 5313 Socially and Environmentally Responsible Management (2–4 credits)
- MGT 5314 Modeling Sustainable Technologies (2 credits)
- MGT 5552 Employee Health and Wellness (2 credits)
- MGT 5681 Socially Responsible Investing (2–4 credits)
- MGT 5682 Green Investing (2–4 credits)
- MGT 5881 Sustainable Community Development (2–4 credits)
- MGT 5312 MBA Capstone Project (2–4 credits) *

Specialization Courses in Business Process Improvement

- MGT 5020 Business Process Improvement (4 credits)
- MGT 5090 Performance Improvement Project (4 credits) *
- MGT 5180 Operations Management (2–4 credits)
- MGT 5240 Statistics for Business Process Improvement (4 credits)

Specialization Courses in Accounting

- MGT 5141 Intermediate Accounting I (4 credits)
- MGT 5142 Intermediate Accounting II (4 credits)
- MGT 5160 Managerial Accounting (4 credits)
- MGT 5852 Lean Accounting Transformation (2 credits)
- MGT 5859 US and International Accounting Practices (2 credits)

Specialization Courses in Information Systems Management

- MGT 5410 Information Systems (4 credits)
- MGT 5412 Information Systems Strategy (2 credits)
- MGT 5414 Management of Information Systems (2 credits)
- MGT 5420 Information Systems Program and Project Management (4 credits)
- MGT 5440 Enterprise Business Processes and Applications (4 credits)
- MGT 5450 Data Management Systems (4 credits)
- MGT 5460 Data Warehousing and Analytics (4 credits)

Self-Designed Specialization

A student may petition the MBA program director to have a self-designed specialization that may include regular course work, directed study, and internship credits totaling 16 credits.

A *concentration* is a depth of study in an area of business, typically in one of the business functions, beyond that which is covered in the Distribution Requirement. MBA students may fulfill the Depth Requirement by taking *three* concentrations of at least 6 credits each. With the prior approval of the MBA program director, MGT 5980 Internship (2 credits) may apply to any concentration according to the subject of the internship report.

A concentration may be taken from any of the Specialization areas listed above. Other concentrations include the following:

*Concentration Courses in **Marketing***

- MGT 5730 Advertising (2–4 credits)
- MGT 5740 Marketing Research (4 credits)
- MGT 5750 Internet Marketing (2–4 credits)
- MGT 5751 Analytics for Internet Marketing (2–4 credits)
- MGT 5861 Online Business Analytics (2–4 credits)

*Concentration Courses in **Human Resource Management***

- MGT 5010 Organizational Change for Sustainability (2–4 credits)
- MGT 5350 Needs Analysis and Program Evaluation (4 credits)
- MGT 5550 Human Resource Development (2–4 credits)
- MGT 5551 TM Program Teacher Training (2–4 credits — may be repeated for credit)
- MGT 5660 Human Resource Strategy (2–4 credits)
- MGT 5810 Employment Law (1–4 credits)
- MGT 5830 Mediation and Negotiation (2–4 credits)

*Concentration Courses in **Financial Management***

- MGT 5310 Sustainable Technologies (2 credits)
- MGT 5510 Corporate Finance (2–4 credits)
- MGT 5620 International Finance (2–4 credits)
- MGT 5681 Socially Responsible Investing (2–4 credits)
- MGT 5682 Green Investing (2 credits)

*Concentration Courses in **International Business***

- MGT 5290 Logistics and Supply Chain Management (1–4 credits)
- MGT 5620 International Finance (2–4 credits)
- MGT 5690 International Business (2–4 credits)
- MGT 5790 International Marketing (2–4 credits)
- MGT 5830 Mediation and Negotiation (2–4 credits)
- MGT 5859 US and International Accounting Practices (2–4 credits)

Electives

Elective courses may be taken from any concentration offered by the department. With the permission of the department chair, a maximum of 8 elective credits may be taken as courses designated 400-level or above in other departments of the University or as 300- or 400-level courses in Sustainable Living. MBA students who take undergraduate courses will be required to do extra work commensurate with graduate-level credit.

Electives in Sustainable Living (Fairfield, Iowa campus)

- SL—A101 Organic Agriculture (4 credits)
- SL—E201 Renewable Energy (4 credits)
- SL—G101 Permaculture Design (4 credits)
- SL—G201 Ecology (4 credits)
- SL—G220 Environmental Planning and Landscaping (4 credits)
- SL—G280 Ethnobotany (4 credits)
- SL—P101 Sustainable Global Environment (4 credits)
- GOV 420 Economic Analysis of Environmental Policy (4 credits)

Accelerated MBA Programs

Maharishi University of Management offers two accelerated MBA programs, the Accounting MBA and the Executive MBA. These are designed for specific types of students who have substantial training or experience in business, management, or leadership. The accelerated MBA programs therefore have special admission requirements. These programs tend to be offered in a cohort model wherein students are admitted in a batch and take the same set of courses together. The minimum of 50 credits required in the accelerated MBA programs is typically completed in two or two-and-a-half years of study that may be part-time but may have some residential or intensive classroom instruction.

An accelerated MBA program has a core foundational requirement of approximately 20 credits. This ensures that the MBA graduates will have grasped each of the principal business functions—accounting, finance, operations, marketing, and human resource management—and that they are competent in the supporting fields of business law, business research, and information systems. The core also ensures that graduates understand the foundations of management in the Science of Creative Intelligence or Maharishi's Natural-Law Based Management.

The elective portion of an accelerated MBA is approximately 30 credits and will reflect the specific needs of the target group.

Entrance Requirements for the Accounting Professionals MBA Program

Applicants must have an undergraduate degree or equivalent and at least two years of full-time paid professional work in accounting or training in accounting that includes intermediate accounting and auditing. Preference is given to students who have an undergraduate or master's degree in accounting, finance, or business with a grade point average of 3.0 on a 4.0 scale or second division rank. English proficiency is required and will be assessed by the Maharishi University of Management Admissions Office.

Applicants who do not demonstrate English fluency will be required to take the TOEFL test and score at least 550 (paper-based) or 213 (computer-based) if a student's native language is not English. The Graduate Management Admission Test (GMAT) is not required but is highly recommended.

Graduation Requirements for the Accounting Professionals MBA Degree

To graduate with an MBA degree under this option, students must successfully complete all general requirements for a master's degree including Development of Consciousness. (Please refer to "Degree Requirements" in "Academic Policies.") Degree requirements for the Accounting Professionals MBA program are a minimum of 53 credit credits, plus participation in the Development of Consciousness program.

Academic Elements

The Accounting Professionals MBA Program consists of three academic elements: (a) Foundational Studies that provide a solid interdisciplinary framework and subjects in key functional areas to build management capabilities, (b) Advanced Studies that provide opportunities to sharpen knowledge in financial or managerial accounting and related areas, and (c) Practicum Internship through co-operative accounting positions with business enterprises or NGOs to enhance applied business skills.

Students need a minimum of 53 credits of academic credit across the three elements that follow:

• Foundational Studies (16–18 credits)

FOR 500 The Science of Creative Intelligence (2–4 credits) or STC 508 Science and Technology of Consciousness (4 credits), MBA Forest Academy (2 credits), and at least 10 credits covering at least five of the foundational subjects in business administration, i.e., marketing, accounting, finance, operations, information systems, business law, and human resource management. Also, students will take a course in Career Strategies (2 credits) that will train students about what they need to secure a curricular practical training position.

- **Advanced Studies (26–28 credits)**

Students are encouraged to study for the four parts of the CPA exam (16 credits) or the two parts of the CMA exam (8 credits). Additional advanced courses include topics such as finance, industry analysis, business process improvement, and lean accounting.

- **Practicum (9 credits)**

At least 9 credits of MGT 5910 Practicum Away coincident with curricular practical training (CPT) in a full-time accounting-related position.

The Department of Business Administration offers two specialization tracks for graduates and for students currently enrolled in the Accounting Professionals Master of Business Administration (AccMBA) program. Students may choose between a “Specialization in Lean Accounting” or a “Graduate certificate in Lean Accounting” depending on whether they have completed their graduation requirements for the AccMBA.

The Lean Accounting specialization requires 12 credits of academic course work, after completing the regular AccMBA degree requirements. No additional on-campus study is required. The program is one year in length and curricular practical training (CPT) will be authorized for that length of time. Specialization students will not graduate until they have completed the required 12 credits of distance education courses.

Entrance Requirements for the Executive MBA Program

Applicants must have an undergraduate degree or equivalent and at least three years of managerial or professional work experience, preferably including at least one year supervising employees. GMAT or equivalent entrance test is recommended but not required. Acceptance is based upon the quality of prior academic performance and other forms of professional development, ability to work well with others, and achievements in one’s profession. English proficiency is required and will be assessed by the Maharishi University of Management Admissions Office. Applicants who do not demonstrate English fluency will be required to take the TOEFL test and score at least 550 (paper-based) or 213 (computer-based) if a student’s native language is not English.

Graduation Requirements for the Executive MBA Program

To graduate with an MBA degree under this option, students must successfully complete all general requirements for a master’s degree. (Please refer to “Degree Requirements” in “Academic Policies.”) The Executive MBA program is typically designed for a specific client or for a particular type of participant. As such, it is offered as a cohort program in which all elective options are rare. For the Executive MBA, participants must complete 50 credits of course work as follows:

MBA Distribution Requirement (18 credits)

Consistent with the nature of the MBA as a general management degree, each Executive MBA participant will achieve a basic competence in the foundational fields of business. This is demonstrated by having a total of 18 credits earned by taking at least 2 semester-hour credits in each of *five of the following seven* fields:

- Marketing
- Accounting
- Financial management
- Business law and ethics
- Leadership, the management of people or organizations
- Management of operations or quality
- Sustainable business.

Courses Emphasizing Personal Development (8 credits)

- MGT 5001 Success Without Stress (2 credits)
 - MGT 5100 Natural Law Based Leadership (2 credits)
- and any Forest course FOR 500 or above (1–2 credits each)

Depth Requirement—Specialization Courses (16 credits)

Specialization courses are drawn from the general course catalog or are developed as needed according to the interests of the group taking the Executive MBA.

Other Courses (various credits)

Courses outside the specialization, or deeper study within the specialization, may be offered in the Executive MBA.

GRADUATE CERTIFICATES IN BUSINESS

Graduate Certificate in Business Administration

A student may earn a Graduate Certificate in Business Administration by taking 18 credits of MBA course work, which may include the MBA Foundation courses. Students in a Graduate Certificate program must take MVS 501 The Science of Creative Intelligence (2–4 credits) or STC 508 Science and Technology of Consciousness, Part 1 (2 credits) before starting their third course (9th credit) unless they waive this requirement due to prior study.

The entrance requirement for the Graduate Certificate in Business Administration is the completion of either a four-year bachelor's degree or a three-year bachelor's degree with at least 15 semester-hours of additional study or the equivalent in work experience.

Graduate Certificates in MBA Specializations

A Graduate Certificate may be earned in any of the areas of MBA specialization by taking 16 or more credits in that area of specialization within the MBA program, or by adding enough courses to an area of concentration to earn at least 16 credits in that area of concentration.

Students may earn a Graduate Certificate in an MBA Specialization after they have completed the requirements for the MBA.

The entrance requirement for the Graduate Certificates in MBA Specializations is a four-year bachelor's degree and completion of the MBA Foundation.

Students who take a Graduate Certificate will be required to take a two-credit course on the Science of Creative Intelligence (FOR500) or on the Science and Technology of Consciousness (STC 508) unless they are candidates for the MBA degree.

Graduate Certificate in Lean Accounting

This certificate program is open to anyone holding the Accounting Professionals MBA degree (AccMBA) from Maharishi University of Management. Candidates must have already graduated or have completed all AccMBA degree requirements and be eligible to graduate at the next graduation date. The Graduate Certificate in Lean Accounting is one year in length and requires 12 credits of coursework (from the six courses listed below) and at least 8 credits of MGT 591 Practicum as authorized Curricular Practical Training (CPT) during which the student will participate in a project to implement lean accounting innovations in the workplace.

To complete the Certificate, 12 credits from the following six courses are required. (Three courses will be offered on a rotating basis each semester.) It is advised that students complete all six courses in two successive semesters.

- MGT 5853 Systems for Developing Organizational Excellence (2 or 4 credits)
- MGT 5854 Lean Management Principles (2 credits)
- MGT 5855 Lean Accounting I (2 credits)
- MGT 5856 Lean Accounting II (2 credits)
- MGT 5857 Cases in Lean Management and Accounting (2 or 4 credits)
- MGT 5858 Implementing Lean Accounting in Organizations (2 or 4 credits)

Students are required to take MGT 5858 in conjunction with MGT 591 Practicum for a duly authorized CPT where they actively participate in a kaizen event to implement

process improvements in some aspect of an accounting system, and submit a final paper describing the event process and its outcome.

Graduate Certificate in Information Systems Management

Information is central to the strategy of any firm that competes in the knowledge-based economy. This certificate program prepares managers to guide the development and application of information systems in organizations.

To complete the Certificate, students must complete 16 credits from the following list with a grade point average of at least 3.0.

- MGT 5410 Information Systems (4 credits)
- MGT 5412 Information Systems Strategy (2 credits)
- MGT 5414 Management of Information Systems (2 credits)
- MGT 5420 Information Systems Program and Project Management (4 credits)
- MGT 5440 Enterprise Business Processes and Applications (4 credits)
- MGT 5450 Data Management Systems (4 credits)
- MGT 5460 Data Warehousing and Analytics (4 credits)

P H . D . I N M A N A G E M E N T

The PhD program in Management at Maharishi University of Management explores how organizations create sustainable value that fulfills the interests of the organization through producing positive impacts for society and the environment. Our investigations of sustainable management encompass three components: (a) developing holistic consciousness in the manager, (b) managing the transformation of organizations toward sustainable practices, and (c) the measurement and communication of sustainability outcomes. Each of these components is covered in the coursework and they represent the scope of our programmatic research on consciousness-based sustainability in management.

The evolution of individual and collective consciousness cultivates the learning capabilities of systems thinking, collaborative relationships, and creative visioning to achieve sustainable value. This evolving consciousness expresses itself in new management practices and forms of organization that enable organizations to innovatively address social and environmental needs. Evolving consciousness also attends to and reports on a holistic range of performance outcomes, encompassing economic, social, and environmental results.

In the Ph.D. program at Maharishi University of Management, sustainable management is studied in the light of the Science and Technology of Consciousness. This program in

Consciousness-Based Sustainability provides understanding and experience of the total intelligence of nature, which automatically manages the infinitely complex and evolving universe without strain and without mistakes. Students in this program practice technologies to develop their total brain physiology for personal growth toward better health, clearer thinking, greater creativity, moral development, and wisdom.

Professional Development for Teaching, Consulting, and Research

A distinctive strength of the Maharishi University of Management Ph.D. program is its emphasis on preparing graduate students to be great teachers. Students in the Ph.D. program are trained in principles and practices for successful writing and teaching which can be applied in diverse leadership and publishing situations.

The Ph.D. program prepares each student to conduct original and significant research through courses in research methods and statistics. Each student is encouraged to identify a research topic early in his or her studies so that the research papers throughout the program can focus on this chosen topic.

As part of the required course work, students undertake a written comprehensive exam and a written and oral qualifying exam. When a student successfully completes the qualifying examination, the student is advanced to Ph.D. candidate status, and tuition is reduced. When a dissertation proposal is accepted, the student is advanced to Ph.D. researcher status. The Ph.D. researcher must successfully complete an oral defense of the dissertation.

Entrance Requirements for the Ph.D. Degree in Management

The entrance requirements for the Doctor of Philosophy in Management are:

- MBA, master's degree in a business-related field, or a master's degree and substantial business-related work experience
- GMAT or GRE exam
- A substantial research paper as evidence of academic writing. The paper may have been submitted for required course assignments or thesis in the student's master's degree program. This should be a paper written by the student alone, not a project by a team of students. Such writing samples may be accepted as substitutes for scores on GMAT or GRE.
- TOEFL score of at least 600 (paper-based) or 250 (computer-based) is required if a student's native language is not English. English assessment by the University's Admissions Office can be substituted for the TOEFL test. TOEFL is waived if the student has completed a degree program conducted in English.

- At least two years of professional work experience in a business is preferred.

Graduation Requirements for the Ph.D. Degree in Management

To graduate with a Ph.D. in Management, students must successfully complete all general requirements for the doctoral degree. (Please refer to “Degree Requirements” in “Academic Policies.”) As part of these requirements, students must successfully complete the following degree requirements.

Core Management Courses (16 credits, all 5 courses are required)

- MGT 601 Organizational Behavior Theory and Research
- MGT 606 Socially and Environmentally Responsible Management (2 credits)
- MGT 676 Implementing Sustainability
- MGT 678 Outcomes Measurement for Sustainable Business
- MGT 679 Research Seminar in Sustainable Management (2 credits) *may be repeated for credit*

Research Methods (24 credits, 6 courses — a maximum of one course may be waived by prior study; additional courses may be required by the dissertation adviser as appropriate to the student’s research)

- MGT 5240 Data Analysis for Managers (4 credits)
- MGT 628 Introduction to Multivariate Data Analysis (4 credits)
- MGT 631 Multiple Regression Analysis (4 credits)
- MGT 634 Applied Multivariate Data Analysis (4 credits)
- MGT 635 Quantitative Research Design (4 credits)
- MGT 636 Qualitative Research Methods (4 credits)

Professional Development (4 credits)

- MGT 692 Seminar in Writing (2 credits)
- MGT 693 Seminar in Teaching (2 credits)

Additional Courses

A student’s faculty advisory committee may require additional course work as required for the student’s dissertation research.

Qualifying Examinations and Dissertation Research (22 credits minimum)

- MGT 689 Preparation for Comprehensive Examination (4 credits — may be repeated for credit until the comprehensive examination is completed)
- MGT 690 Preparation for Qualifying Examination (4 credits — may be repeated for credit until the qualifying examination is completed)

- MGT 700 Preparing the Dissertation Proposal (4 credits — may be repeated for credit until the dissertation proposal is accepted)
- MGT 701 Dissertation Research (2.5 credits per block — may be repeated for credit until the dissertation is completed)

When the qualifying examination is successfully completed, the student is advanced to Ph.D. Candidate status. When the dissertation proposal is accepted by the faculty, the student is advanced to Ph.D. Researcher status. The amount of time required to complete the dissertation varies according to the research project. A public oral presentation and defense of the dissertation is required, as is acceptance of the dissertation by the dissertation committee, the Graduate School Director, and the Library Director. (See the dissertation manual.)

COURSE DESCRIPTIONS

Undergraduate Courses

MGT 200 Principles of Business Success: Principles of Marketing, Finance, Operations, Accounting, and Human Resource Management as the Keys to Creating Happiness, Health, and Good Fortune in Business Enterprises

This course provides a holistic overview of business for new management majors or students from other majors. Principles of marketing, finance, operations, accounting, and human resources are taught in the perspective of an integrated business strategy and are illustrated by lively examples from videos, case studies, guest speakers, and field trips. (4 credits) *Prerequisite:* WTG 192.

MGT 201 Business Communication Skills: Creating a Frictionless Flow of Communication between Sender and Receiver through Effective Presentations and Writing

Effective communicators are skilled at both informing and inspiring other people. This course provides instruction and practice in making oral and written presentations based on the principle that ideal communication is a frictionless flow that nourishes both sender and receiver. Topics include: word processing and presentation software; library and Internet research skills; oral presentations; writing letters, reports, proposals, and manuals; and the principles of ideal communication. (4 credits) *Prerequisite:* WTG 192

MGT 203 Personal Finance

This course helps a student understand both the fundamentals and the practical aspects of personal finance. The fundamentals of the time value of money, the risk/return relationship, and the power of compounding lay the foundation for the practical aspects of managing debt and income to plan for success both while working and in retirement. Debt aspects covered include credit cards, auto loans, mortgages, and taxes. Income topics covered include work income, stocks, bonds, and real estate. *Prerequisite:* MATH 153 (2 credits)

MGT 220 CCTS: Current Topics in Sustainable Economics—Efficiently Using Resources to Promote the Fulfillment of Individuals and Society

In this *Critical and Creative Thinking* seminar, students develop their skill in the use of logical argument, the interpretation of evidence, and the analysis of underlying assumptions to understand current issues in economics. We review the basic assumptions and logic of classical microeconomics and macroeconomics in light of their modern critique through sustainability. Specific topics will vary from one offering to the next.

However, frequent themes in the course are the social responsibility of business, the importance of local versus global markets, equality of economic opportunity, the distribution of wealth and income, the role of government in the economy, the conservation of natural resources, and the goals of an economic system. (4 credits)

Prerequisites: STC 108, taken during students' first semester or with consent of the Department faculty

MGT 230 The Successful Entrepreneur

This course is an introduction to the life of the entrepreneur as told through case studies and personal histories. Topics include: the mindset required of an entrepreneur, how to recognize a good idea for a business, issues in managing people and getting funding, balancing work and family life, entrepreneurship in international business and in the non-profit sector. (2 credits)

MGT 231 The American Business Experience

This course introduces international students to the business culture and business practices of the United States. Topics include: business etiquette, the employment relation, the role of government both in supporting free enterprise and in regulating business activities, and current topics in the business press. The course includes an overnight field trip to visit the headquarters of a major corporation. (2 credits)

MGT 314 Statistics for Business and the Environment: Discovering the Orderly Patterns and Relationships at the Basis of Nature's Functioning

Statistics offers powerful quantitative tools based on the underlying orderliness of Nature to support improved decision-making in business and environmental management. Statistics is the art and science of finding meaningful patterns and relationships in data (data analysis), generating useful data (data production), and drawing valid conclusions from data (statistical inference). In this course, students will learn how to use key graphical and numerical tools of data analysis, how to effectively present their findings, and evaluate the validity of their conclusions. Environmental applications and case studies will be emphasized. Topics include: graphical and numerical tools for summarizing and describing data, modeling data with probability distributions, sampling and surveys, designing experiments, hypothesis testing for means and proportions, correlation analysis, and modeling relationships using regression analysis. (4 credits)

Prerequisite: MATH 153 or equivalent

MGT 315 Financial Accounting: Using the Self-Referral Mechanism of Financial Statements to Structure an Organization's Progress and Prosperity

Accounting systems provide financial information to guide management planning, decision-making, and control. Financial statements are essential for reporting to

management, stockholders, creditors, and the government. Topics include: fundamentals of bookkeeping, internal control, generally accepted accounting principles, inventory valuation, receivables and payables, depreciation, amortization, stocks and bonds, inflation accounting, and the interpretation and analysis of financial statements. (4 credits) *Prerequisite:* one of these courses: MATH 153, MATH 170, or MGT 314

MGT 316 Managerial Accounting: Creating Self-Referral Feedback Mechanisms to Provide Data for Informed Decision-Making

This course provides analytic tools and techniques to assist management in planning, decision-making, and control. Topics include: cost-volume-profit analysis, manufacturing costs, job order and process costing, standard costing and variance analysis, variable and full costing, fixed and flexible budgets, responsibility accounting, direct and absorption costing, and the behavioral implications of management accounting systems. (4 credits) *Prerequisites:* MGT 315 and MGT 314

MGT 335 Forming and Funding a Nonprofit Organization: Skill in Action to Fulfill Unmet Needs

This workshop-style course will give students hands-on training in the steps needed to start a nonprofit organization that include establishing a board of directors, creating a mission statement, planning strategically, and following legal protocols. Students will gain a thorough grasp of fundraising by connecting with a local nonprofit organization, researching grant opportunities for it on the Foundation Center national database, and drafting an actual grant proposal. In addition, students will examine what it takes for an organization to thrive over time. (2 credits)

MGT 340 International Law

International law is composed of voluntary agreements between nations in a variety of contexts. This course provides an introduction to the processes and evolution of international law through a survey of topics in the field with a special focus on one subject, which varies from year to year. Topics include: human rights, the global environment, economic integration, and global sustainability. (4 credits)

MGT 346 Career Strategies: Choosing a Career to Maximize Inner and Outer Fulfillment

The course has a practical focus on career discovery and implementation. In the framework of Consciousness-Based principles for success, students consider their own skills, abilities, and objectives, and learn to design a career that utilizes their talents and creativity for maximum effectiveness, achievement, and evolution. They design an action plan to implement their career goals, and then work with the best Internet resources to research occupational interests, business and service organization profiles, and industry

trends. Students learn networking strategies, including interviews, and using the telephone and Internet for extending their professional networks. They also develop scripts for introducing themselves and describing their achievements and capabilities with confidence in various formats, writing about themselves in the cover letter, resume, and portfolio, and speaking about themselves and what they can offer to potential colleagues, funding agencies and employers. (variable credits) *Prerequisite:* third year of undergraduate study

MGT 350 Financial Management: Intelligently Directing the Flow of Funds to Achieve the Organization's Strategic Goals

Financial management provides an intelligent direction to the flow of funds for maximizing firm value. This course introduces techniques and concepts necessary to effectively manage the financial resources of any organization in order to achieve strategic goals. Topics include: the time value of money, stock and bond valuation, risk and return, capital investment decisions, analysis of financial statements, financial forecasting, working capital management, the investment banking process, and the sources of funding for a business. Students will develop capital requirements, plan the raising of capital, and develop a cash flow design for their business plan project. (4 credits) *Prerequisite:* MATH 153; MGT 315 preferred.

MGT 378 Marketing Management: Creating a Positive Influence to Attract, Satisfy, and Retain Customers

Marketing is the process of creating exchanges that satisfy individual and organizational objectives. Topics include: consumer behavior, market research, market segmentation, competitive positioning and strategy, advertising, pricing, distribution and channel management, selling techniques and sales force management, and new product development. Students conduct an industry analysis and write the marketing section for their business plan. (4 credits) *Prerequisites:* MGT 314 and WTG 192

MGT 382 Management and Organization: Expanded Consciousness Is the Basis of Ideal Behavior at the Individual, Team, and Organizational Levels

An understanding of the principles of human behavior at the individual, interpersonal, group, and organizational levels of analysis is critical to successful planning, organizing, and implementation by any manager. This course explores the dynamics of individual and group achievement from the perspectives of both skills and theory. Topics include: general management theory, leadership, delegation and coordination, planning and problem solving, organizational structure, and organizational change. (4 credits) *Prerequisite:* MGT 201.

MGT 394 Investment Management: Profiting from the Principle That the Nature of Life Is to Grow

Successful investing provides enormous rewards in terms of freedom and financial security. Investing is a process of using capital or money to increase individual or corporate net worth. Topics include: how to use equity and debt securities, options and futures, and modern portfolio theory to develop strategic and tactical capabilities. Students will create a model portfolio based on both fundamental and technical analyses of current and historical market conditions and will read books from leading investors and benefit from guest lecturers. (4 credits) *Prerequisite:* MGT 350 or MGT 315

MGT 399 Directed Study

(variable credits) *Prerequisites:* consent of the Department faculty and the Academic Standards Committee

MGT 400 Topics in Business: Exploring the Field of All Possibilities in Business

This course covers topics to be defined by the instructor that supplement the regular curriculum. (variable credits) *Prerequisite:* consent of the Department faculty

MGT 402 Managing for Sustainability: Maximizing the Intelligent Use of the Environment by Focusing on Environmental and Resource Policy

Ideal for both Management and Sustainable Living students, this course shows how creating an environmentally sustainable operation can provide opportunities for increasing profits. Using case studies, students learn how to apply the core principles of sustainability in agriculture, business, manufacturing, government and other activities, so that it is both profitable and beneficial to the environment. The course is project-based and covers sustainability in all areas of society from both local and global perspectives. The role of ISO 14001, responsible investing, and environmental advocacy organizations, in the transition to sustainable living, will be made clear. Students will interact with city and industry leaders and managers to create budget and return-on-investment projections for transformation to sustainable practices. (4 credits)

MGT 403 World Peace Project: Applying the *Consciousness-Based* Approach to Peace

During this project, the student connects the knowledge gained from the other four or more courses in the World Peace minor, by answering the theme question: How does the *Consciousness-Based* Approach to Peace bring peace to the individual, the nation and the world? Each student creates a contract with the faculty advisor to design a unique response to this question, and meets on a regular basis to show progress on the project. This course is taken as a formal class when 10 or more students are enrolled in it during any block. This project may also be done, with faculty approval, in the context of a

preparation course for a peace conference at Maharishi University of Management or at another site. (4 credits)

MGT 405 Cross-Cultural Communication: Understanding and Appreciating Differences to Create a Frictionless Flow of Communication

Ever increasing globalization makes it imperative that students understand the different cultures in their world. This course provides frameworks useful in classifying cultures and understanding cultural norms and traditions. Analyzing case studies and participating in workshops and presentations enable students to establish patterns of behavior that facilitate cross-cultural communication. (2–4 credits)

MGT 408 Preparation for Professional Examination

Examinations administered by professional associations provide a standard assessment of learning in specific professional areas. This course provides an opportunity for students to review the material covered by specific professional examinations and to practice taking sample examination questions. (4 credits)

MGT 414 Taxation: Calculating the Individual and Corporate Contribution to Government Activities to Bring Fulfillment to the Goals of Society

State and federal taxation are instruments of social policy. The principles of taxation must be considered in the planning and decision-making process of every organization whether profit or nonprofit. This course surveys basic tax concepts and their use in individual and organizational tax planning. Topics include: social policy implications of taxation, concepts of income, tax reporting, taxpaying entities, deductions, property transactions, and gain or loss recognition. (2–4 credits) *Prerequisites:* WTG 192 and MGT 220

MGT 418 Sustainable Economics: Increasing the Flow of Wealth through Attunement with the Laws of Nature

Many of the old models used in both micro and macroeconomics are based on a world view that is not sustainable. Students will learn the new models that are emerging as the standards for life in a sustainable civilization—these include local living economies, alternative monetary systems, ecological economics, other forms of capital such as environmental, human, social and organizational. Students will use these concepts to design a society that mimics nature and does not consume and discard the resources upon which true wealth is based. (4 credits) *Prerequisite:* MGT 220

MGT 422 Business Economics: Achieving Prosperity and Progress by Unfolding the Full Potential of Creative Intelligence

The aim of this course is to prepare the student to analyze the functions of business that depend on economic analysis, principally marketing, finance, operations management, and strategic management. At the completion of this course, students should understand

rational economic decision making and have a special appreciation for human resource development as the basis for unleashing the economic potential of firms and nations. (4 credits) *Prerequisite:* MGT 220

MGT 423 Managerial Communication Skills

Effective communicators are skilled both at informing and inspiring other people. This course provides instruction and practice in making oral and written presentations based on the principle that ideal communication is a frictionless flow that nourishes both sender and receiver. Topics include: work processing and presentation software, library and Internet research skills; oral presentations; writing letters, reports, proposals and manuals; and the principles of ideal communication. (2–4 credits) *Prerequisite:* WTG 192

MGT 428 Business Law and Ethics: Learning to Act in Accord with Natural and National Law — Supporting Business Interactions through Contracts, Torts, and Agency Law

Law is a tool of progress. It creates the legal form of the business and enables business people to communicate clearly. It facilitates their commercial relationships and averts problems before they arise. Familiarity with business law and the natural laws upon which it is based promotes success for the individual and society. Topics include: contracts, torts, agency, bankruptcy, secured transactions and property (real, personal, and intellectual property.) Students learn to select the most appropriate form of organization for their business and draft simple contracts. (4 credits) *Prerequisite:* MGT 200

MGT 429 Human Resource Management: Designing Systems to Attract, Retain, Motivate, and Nurture the Organization's Most Precious Resource

People are an organization's most important asset. Success comes from organizing and managing people to produce the products and services that customers value. This survey course exposes students to the full array of human resource functions: human resource planning, recruitment and selection, training, performance management, compensation, unions, and upholding employer/employee rights and responsibilities. The students become familiar with the role of human resource department staff in designing human resource systems, as well as the critical role line managers and supervisors play in using these systems effectively to attract, retain, and motivate employees. Students also design a comprehensive human resource section for their business plan. (4 credits) *Prerequisite:* MGT 200

MGT 432 Entrepreneurship Project: Integrating the Principles of Management to Start a Sustainable Business

This capstone course enables entrepreneurs or intrapreneurs to dynamically integrate the knowledge of the Entrepreneurship Module in the creation of their business plan to manifest their intention. Students evaluate sample business plans, review and give feedback on classmates' business plans, and revise and present their own business plan to faculty and mentors. (4 credits) *Prerequisites:* MGT 350, MGT 378, and WTG 192

MGT 440 Intermediate Accounting 1: Developing Broad Comprehension of Accounting Principles and Sharp Focus in their Application for an Accurate Financial Statement

This course sequence provides a technical analysis of how generally accepted accounting principles (GAAP) are applied in the presentation of published financial statements. The interplay of government, the accounting profession, and the conceptual framework of accounting at the basis of formulating GAAP demonstrate how collective consciousness interacts within itself to create steps of social evolution. References are made to technical statements and pronouncements that are the sources of GAAP, covering a variety of specific topics such as accounting for leases, pensions, and inter-period income tax. (4 credits) *Prerequisite:* MGT 315

MGT 441 Intermediate Accounting 2

This course sequence provides a technical analysis of how generally accepted accounting principles (GAAP) are applied in the presentation of published financial statements. The interplay of government, the accounting profession, and the conceptual framework of accounting at the basis of formulating GAAP demonstrate how collective consciousness interacts within itself to create steps of social evolution. References are made to technical statements and pronouncements that are the sources of GAAP, covering a variety of specific topics such as accounting for leases, pensions, and inter-period income tax. (4 credits) *Prerequisite:* MGT 441

MGT 449 Accounting Applications: Using Computerized Accounting Systems to Do Less and Accomplish More

Modern financial management utilizes computerized accounting packages for efficient record keeping, safeguarding of assets, customer service, and financial analysis. This course reviews current computerized accounting packages and applies them to case situations. (2–4 credits) *Prerequisite:* MGT 315

MGT 450 Leadership: Intelligence Gives an Evolutionary Direction to Change

The qualities and principles of ideal leadership are identified, examined and developed through the examples of great leaders in history. This course provides the opportunity to

measure how a dynamic executive in either the public or private sector can apply the principles of Management by Natural Law. (4 credits) *Prerequisites:* MGT 200 and MGT 382

MGT 459 International Finance: Maintaining Cultural Integrity While Promoting Global Prosperity through the International Monetary System and Foreign Exchange Markets

This course provides an introduction to the theory and practice of financial management in an international context. Topics include: the international monetary system, the foreign exchange market, forecasting foreign exchange rates, management of foreign exchange exposure, international investment, and political risk management. (4 credits)

Prerequisites: MGT 350, MGT 315, and MGT 314

MGT 462 Corporate Finance: Using Quantitative Tools to Direct Corporate Resources for Strategic Success

This course examines quantitative tools for intelligent management of corporate finances, including: optimum capital structure, analysis of portfolio and risk management, dividend policies, and critical issues related to mergers and acquisitions. Investment decision analysis topics include discounted and non-discounted cash flow analysis, ranking investment projects, income tax implications, and risk analysis. Students discover how various quantitative tools empower decision-makers with broad awareness that sharpens the ability to focus on key variables. (4 credits) *Prerequisite:* MGT 350

MGT 471 Money and Capital Markets: Viewing the Flow of Funds through Banks and Other Financial Institutions as the Flow of Consciousness within Itself

This course provides an introduction to the instruments, markets, and institutions of the financial sector of the economy. Some topics included are financial instruments, interest rates and bond prices, the structure of interest rates, flow of funds analysis, commercial banking, non-deposit depository, and insurance financial intermediaries. (2–4 credits)

Prerequisites: MGT 422 and MGT 350

MGT 474 Marketing Research: Using Data Analysis to Identify Trends in Collective Consciousness and Assess Support for New Business Ideas

Market research is the first activity that should be conducted when contemplating a new business or governmental activity. It is the means for refining an initial idea to a concept that is maximally supportable by the environment. The course covers specification of information needs, research design methods, sources of marketing information, analyzing and interpreting data, and developing evaluation and feedback systems. (4 credits)

Prerequisites: MGT 314, MGT 378, and WTG 192

MGT 478 Advertising: Promoting the Fulfilling Qualities of the Company's Product or Services

This course explores the approaches to effective advertising necessary for achieving sales and market share objectives. Topics include: review of consumer behavior and buying patterns, differences between individual and corporate buying, defining objectives, expenditure analysis, media selection, and the design, management, and evaluation of advertising programs. (2–4 credits) *Prerequisite:* MGT 378

MGT 484 Mediation and Negotiation: Utilizing the Deepest Principles of Human Nature to Create Win-Win Solutions

This course is a survey of negotiation, mediation, and arbitration methods of resolving disputes without litigation. Students gain practical negotiation skills through workshops and case studies. Topics include: understanding other parties, building a productive framework for negotiation, defining objectives and strategy, framing proposals, and finding “win/win” solutions. (2–4 credits)

MGT 485 Eco-Tourism in South Africa

In this course, Maharishi University of Management students will work both online and on-site with students in our partner institutions, the Maharishi Invincibility Institute (MII) in South Africa to develop the Ezemvelo Nature Reserve as an eco-tourism destination in South Africa. Ezemvelo is an 18-square-mile nature reserve recently donated to MII, about 1.5 hours drive northeast of Johannesburg and a half-hour east of Pretoria. In cooperation with the management of Ezemvelo, Maharishi University of Management students in sustainable living and in business will work with international tourism students from UEM and business students from MII to develop plans and implement projects that build Ezemvelo into a profitable eco-tourism destination. There will be a fee for the expenses of traveling abroad. (4–6 credits) *Prerequisite:* consent of the instructor

MGT 497 Fieldwork in Management: Developing Skill in Action

This course provides students with the opportunity to relate theoretical management principles to practical issues through contact with individuals and organizations outside of the university setting. With the supervision of the faculty, students develop and implement projects. Projects may include lecturing, consulting, writing, and developing courses or programs to be presented to selected audiences. (variable credits)

Prerequisites: consent of the Department and written authorization for Curricular Practical Training

**MGT 498 Curricular Practical Training (CPT) Internship in Management:
Integrating Knowledge and Experience to Develop Skill in Action**

This course offers practical experience through work in business administration, public administration, or educational administration. Students maintain journals that record their growth in understanding and experience, as well as their impact on the organization. (4 credits) *Prerequisites:* consent of academic advisor and written authorization of international student advisor

MGT 499 Directed Study

(variable credits) *Prerequisite:* consent of the Department faculty

Graduate Courses

MGT 5001 Success Without Stress: Managing Oneself to Engage the Managing Intelligence of Nature

This course introduces participants to the fundamental themes in the MBA program. We locate the source of every person's creative intelligence in the most settled state of their consciousness and learn, through understanding and direct experience, how the full potential of consciousness can be unfolded in a simple and natural manner. We explore the implications for innovative thinking, personal health, interpersonal behavior and coherence in organizations and society. Key ideas in the course are grounded in empirical research and illuminated by the unified understanding of Natural Law that is emerging from modern physics. (2 credits)

MGT 5010 Organizational Change for Sustainability: Creating an Ideal Society

Leadership means accomplishing through others. Implementing successful change in organizations requires process skills in facilitating the performance of individuals and teams. The development of coherence in the collective consciousness of the organization provides for frictionless flow of communication and implementation. Topics include change management skills; life cycle of the consulting process; motivation for performance improvement; individual, interpersonal and team behavior; negotiating collaborative solutions; organizational learning; and the role of training in strategy implementation. (2–4 credits) *Prerequisite:* one course in HR or OB

MGT 5020 Business Process Improvement: Business Activity in Accord with Nature's Law of Least Action

This course covers the theory and practice of performance improvement in both large and small organizations in the manufacturing and service sectors so that they operate in accordance with all the laws of nature. The focus will be on using lean thinking to transform every activity in an organization towards sustainable operations. Students will explore how to extend the principles, rules and tools of lean thinking to achieve

sustainability along with the improvement in quality, reduction of costs, and maintenance of customer delight. The course uses a combination of interactive classroom instruction and project-based learning. Students learn how to align operations along the value stream in any organization, how to improve efficiency, enliven creativity, and so achieve real sustainability. They will understand how to structure ongoing incremental improvement so that performance improvement becomes part of the shift to sustainability. (4 credits)

Prerequisites: MGT 5180 and MGT 5240

MGT 5030 Global Strategic Management: Broadening Awareness to Think Globally and Act Locally

Almost all product markets are now affected by global competition. This course presents the main ideas of strategic thinking in a global context. Students apply the concept of competitive advantage to nations as well as firms. They look at market segmentation worldwide, not just in their home environment. They see supply chains reaching around the globe, and they look at the development of *knowledge* within countries as the basis for economic development and the globalization of purchasing power. (2–4 credits)

Prerequisites: MGT 350 and MGT 378

MGT 5040 Computer Concepts and Applications: Skill in Action

Skill in the use of office software is essential for data storage and manipulation, financial analysis, and the effective presentation of text and images. This course covers the attributes of Microsoft Word that are necessary for writing reports, elements of PowerPoint for presentations, and the functions and database features of Excel such as financial functions, lists, pivot tables, and elementary statistical analysis. (2 credits)

MGT 5041 Creating an Ideal Society through the Science and Technology of Consciousness: Scientifically Validated Programs to Enrich All Areas of Individual and National Life

This course provides understanding of how the Science and Technology of Consciousness provides a practical, effective, scientifically validated body of knowledge that can help fulfill the highest ideals of individual and national life, including: (a) unfolding their inner creative potential and developing total brain functioning, students can achieve their own goals and contribute fully toward the highest goals of national life, (b) gaining holistic health and a society free from disease and weakness, (c) developing cultural integrity and social integration for peace in the nation, (d) promoting well-being through Natural Law-Based agriculture and architecture, and (e) achieving national prosperity through enlivening creativity in national consciousness. (2 credits)

MGT 5050 Principles of Business Success: Principles of Marketing, Finance, Operations, Accounting, and Human Resource Management as the Keys to Creating Happiness, Health, and Good Fortune in Business Enterprises

Knowledge is the basis of action, action is the basis of achievement, and achievement is the basis of fulfillment. This course surveys the fundamental knowledge of management through the key ideas of the various business functions as they relate to the holistic knowledge of the Unified Field of Natural Law, which is the essence of all disciplines. Students experience the integration of marketing, finance, operations, accounting, and human resources either by managing a computer-simulated business over eight “years” or by researching a company. Understanding of that experience comes through readings, lectures and class discussions. (2 credits)

MGT 5090 Performance Improvement Project: Business Activity in Accord with Nature’s Law of Least Action

Students will learn the practical and managerial skills for implementing sustainability through value based process improvement in both large and small organizations. The course is based around implementing Lean Thinking in real world situations. Students will act as junior consultants under the guidance of experienced faculty. They will learn to define value from the perspective of all the stakeholders, how to map value streams, identify waste, and facilitate Kaizen-based process improvement events. They will assist with all aspects of policy deployment, which ensures that the ongoing process improvement reflects strategic business objectives while shifting the organization towards full sustainability. (4 credits) *Prerequisite:* MGT 5020

MGT 5100 Natural Law-Based Leadership: Developing Higher Consciousness for Greater Responsibility and Leadership

The qualities and principles of ideal leadership are identified, examined, and developed through the examples of great leaders. This course provides the opportunity to measure how the dynamic executive in both the public and private sectors can apply management principles. (2–4 credits)

MGT 5120 Government and Business: Government Regulations Guiding Business to Act in Accord with the Best Interests of the Individual and Society

This course presents the legal aspects of business organizations and business behavior and the regulatory environment in which business operates. It involves a study of the societal forces behind the law and the role of administrative agencies in the government’s regulation of business. Topics include: contracts, sales, agency, business associations, property, securities regulation, antitrust law, environmental law, consumer law, intergovernmental relations and corporate political activity, and employment law. (2–4 credits)

MGT 5121 Environmental Law: Connecting National Law with Natural Law to Protect the Environment from Global Warming, Pollution, and Resource Depletion while Creating Abundance for All Nations

From local regulations about water quality to global initiatives like the Kyoto Accord, the law is an important tool for regulating our use of the environment. During this course, students will become familiar with international treaties and protocols on global warming, pollution, and endangered species. The class will also study the key features of American environmental law including the Clean Air and Water Act, the Environmental Protection Act, and other current policies and regulations. Perhaps most importantly, students will understand the lawmaking process as a way to use the legal system to bring about positive change and build sustainable communities. (2–4 credits)

MGT 5130 Business Law and Taxation for Accountants: Functioning within the Legal Environment of Business for Maximum Success

This course examines key legal concepts (e.g., torts, contracts and negotiable instruments) that may affect the work of management accountants in the USA. In addition, students will be exposed to basic personal and corporate income tax laws and tax preparation forms. Students explore this course in the light of the relationships between man-made, national laws and the eternal principles of Natural Law that underlie them. (2–4 credits)

MGT 5131 Taxation: Calculating Individual and Corporate Contributions to Government Activities to Bring Fulfillment to the Goals of Society

State and federal taxation are instruments of social policy. The principles of taxation must be considered in the planning and decision-making process of every organization whether profit or nonprofit. This course surveys basic tax concepts and their use in individual and organizational tax planning. Topics include: social policy implications of taxation, concepts of income, tax reporting, taxpaying entities, deductions, property transactions, and gain or loss recognition. Students explore this course in the light of the relationships between man-made, national laws and the eternal principles of Natural Law that underlie them. (2–4 credits)

MGT 5141 Intermediate Accounting 1: Developing Broad Comprehension of Accounting Principles and Sharp Focus in their Application for an Accurate Financial Statement

This course sequence provides a technical analysis of how generally accepted accounting principles (GAAP) are applied in the presentation of published financial statements. The interplay of government, the accounting profession, and the conceptual framework of accounting at the basis of formulating GAAP demonstrate how collective consciousness

interacts within itself to create steps of social evolution. References are made to technical statements and pronouncements that are the sources of GAAP, covering a variety of specific topics such as accounting for leases, pensions, and inter-period income tax. (4 credits) *Prerequisite:* MGT 5150

MGT 5142 Intermediate Accounting 2

This course sequence provides a technical analysis of how generally accepted accounting principles (GAAP) are applied in the presentation of published financial statements. The interplay of government, the accounting profession, and the conceptual framework of accounting at the basis of formulating GAAP demonstrate how collective consciousness interacts within itself to create steps of social evolution. References are made to technical statements and pronouncements that are the sources of GAAP, covering a variety of specific topics such as accounting for leases, pensions, and inter-period income tax. (4 credits) *Prerequisite:* MGT 5141

MGT 5150 Financial Accounting: Using the Self-Referral Mechanism of Financial Statements to Structure an Organization's Progress and Prosperity

Accounting systems provide financial information to guide management planning, decision-making, and control. Financial statements show the current standing and recent activities of the firm to management, stockholders, creditors, and the government. Topics include: the fundamentals of bookkeeping and generally accepted accounting principles applied to inventory valuation, receivables and payables, depreciation of physical assets, amortization of loans, and stocks and bonds, with implications for the interpretation and analysis of financial statements. (2–4 credits) *Prerequisite:* MATH 153

MGT 5151 The Business Environment for Financial Accountants: Enlivening the Laws of Nature Governing Financial Accounting

The course explores the fundamental laws of nature that structure success in financial accounting. Content covered includes knowledge of alternative business organizations, economic concepts, financing and working capital, information technology, and management accounting. These are the topics covered in the CPA Exam Part 1. (4 credits) *Prerequisite:* MGT 5142

MGT 5152 Auditing for Financial Accountants: Utilizing the Principle of the Second Element to Verify Financial Statements

As independent auditors, CPAs verify the fairness of corporate financial statements and thereby enhance the confidence of those making investment decisions. Auditors play the role of the Second Element by dispelling doubts about the truthfulness of financial statements. Topics include: audit engagement planning, verification and testing of internal controls, and evidence sampling, collection and testing. In addition, the various

types of audit report formats are examined. These are the topics covered in the CPA Exam Part 2. (4 credits) *Prerequisite:* MGT 5142

MGT 5153 GAAP for Financial Accounting: Reflecting Collective Coherence in the Field of Accounting

Students explore and gain the knowledge of generally accepted accounting principles (GAAP) for business enterprises, not-for-profit organizations, and governmental entities, and the skills needed to apply that knowledge. GAAP is seen as a reflection of collective consciousness that specifies rules for financial reporting. These are the topics covered in the CPA Exam Part 3. (4 credits) *Prerequisite:* MGT 5142

MGT 5154 Ethical & Regulatory Environment for Financial Accountants: Following the Path to Right Action

Man-made laws are created to restore the path to right action and meet social needs. In this course, students gain knowledge of legal and ethical responsibilities required for professional accountants. Topics include: business law concepts (such as contracts and agency) as well as specific laws (such as the Sarbanes-Oxley Act). In addition, the course covers federal taxation for individuals, partnerships and corporations. These are the topics covered in the CPA Exam Part 4. (4 credits) *Prerequisite:* MGT 5142

MGT 5155 Lean Management and Organizational Excellence: Utilizing Nature's Principle of Least Action to Improve Organizational Performance and Productivity

This course examines key principles and methods of creating and sustaining performance excellence in both service and manufacturing organizations through application of the “Lean Enterprise” and “Lean Six Sigma” performance-improvement systems. Best practices of world-class companies will be examined through readings, case studies, and management simulations. Topics include: principles and practices of lean management as developed by Toyota, Lean Six Sigma, value stream mapping, simplifying business processes and reducing the seven types of waste, identifying performance metrics, kaizen events and other approaches to business process improvement, lean accounting, application of lean management to environmental management and sustainability. (4 credits)

MGT 5157 Ethics for Accountants

This course is a survey of current topics in the changing landscape of professional accounting. Students will investigate current ethics and contemporary accounting issues that are affecting U.S. Accounting Policies and Procedures. In the post-Enron scandal era, accounting professionals are dealing with increased scrutiny of professional practices and personal behaviors. Through case studies, articles and lectures, students will explore the historical background of ethical issues in US accounting practice. Special focus will be

given to the Sarbanes-Oxley Act. Various contemporary issues will be examined through readings and discussion assigned from professional journals. (2–4 credits) *Prerequisite:* enrollment in the AccMBA program

MGT 5160 Managerial Accounting: Creating Self-Referral Feedback Mechanisms to Provide Data for Informed Decision-Making

This course provides analytic tools and techniques to assist management in planning, decision-making, and control. Topics include: cost-volume-profit analysis, manufacturing costs, job order and process costing, standard costing and variance analysis, variable and full costing, fixed and flexible budgets, responsibility accounting, direct and absorption costing, and the behavioral implications of management accounting systems. (2–4 credits) *Prerequisite:* MGT 5150

MGT 5161 Financial Planning, Performance and Control: Enjoy Greater Efficiency and Accomplish More

This course examines topics covered in Part 1 (of the 2-part version) of the Certified Management Accountant (CMA) examination. Students are exposed to relevant professional skills and topics in budget planning and preparation, cost management terminology, accumulation systems, and allocation techniques. Additional topics include: standard costing, variance analysis, responsibility accounting, internal controls and business ethics. The course is designed to build competency for CMA exam conditions including multiple-choice questions, essays, and business simulations. Professors offer technical insights about how to develop solutions quickly. Just as business feedback loops create opportunities for improved decision making, students in this course receive valuable feedback towards successful completion of the CMA. (4 credits) *Prerequisite:* MGT 5160

MGT 5162 Financial Decision Making: Knowledge is Gained from Inside and Outside

Both inner knowledge and information from the environment are critical to properly manage business risks. In this course, on topics covered in Part 2 (of the 2-part version) of the Certified Management Accountant (CMA) examination, the student is exposed to relevant professional skills and topics in financial statement analysis, business performance metrics, profitability analysis, investment risk and portfolio management, financial instruments and cost of capital issues, international finance, corporate restructuring, decision analysis, and investment decisions. The course is designed to build competency for CMA exam conditions including multiple-choice questions, essays, and business simulations. Professors offer technical insights about how to develop solutions quickly. (4 credits) *Prerequisite:* MGT 5160

MGT 5165 Metrics for Sustainability: Attention Enlivens Action in Accord With Natural Law

The new goal of sustainability requires new metrics for measuring and reporting its achievement. This course reviews measures used in “triple bottom line” reporting, where financial performance is evaluated along side of measures of employee health and wellness, corporate social responsibility, and greenhouse gas emissions. Also covered are standards for product ecolabels, “green” buildings, and sustainable organizations. (2–4 credits)

MGT 5168 Accounting Software Applications: Skill in Action

Modern financial management utilizes computerized accounting packages for efficient record keeping, safeguarding of assets, customer service, and financial analysis. This course reviews current computerized accounting packages and applies them to case situations. (2–4 credits) *Prerequisite:* MGT 5150

MGT 5170 Data Analysis for Managers: Harnessing nature’s organizing power by using computer technology to support decision-making

The tools of managerial data analysis enable managers to transform raw data into useful knowledge of business performance in every functional area of business by identifying meaningful patterns and relationships in business data. Increased knowledge of business processes provides a foundation for improved business decision-making and enhanced business performance. Topics include: principles of statistical thinking for management; numerical and graphical tools for describing and analyzing business data; applications of probability and probability distributions; hypothesis testing for business decision-making; applied multiple regression for analyzing business performance and operations through case studies using real data. (2–4 credits) *Prerequisite:* MATH 153 or MATH 170

MGT 5180 Operations Management for Sustainable Business: Managing an Organization’s Inputs, Transformations, and Outputs to Structure Automation in Administration

Operations management is concerned with the process of transforming inputs into higher-value outputs with maximum efficiency. Topics include: process design; quality management and control; lean production; supplier certification; capacity planning, facilities, and scheduling; and inventory management including materials requirements planning. Students research facility and personnel requirements, along with production and delivery plans including milestone dates for their business plan. (2–4 credits)

Prerequisite: MATH 153

MGT 5181 Managing Operations for Quality and Efficiency: Managing an Organization's Inputs, Transformations, and Outputs to Structure Automation in Administration

Through its operations, a business transforms inputs into higher-value outputs. This course shows experienced managers how operational processes differ across types of businesses and how the operations function is related to the other business functions—marketing, accounting, finance, and human resources—through decisions about product design, quality management and control; capacity planning and resource scheduling; and inventory management. (2 credits) *Prerequisite:* MATH 153

MGT 5202 The National Economy: Adapting Economic Principles to Maintain Cultural Integrity

This course introduces managers to the dynamics of the national economy as it affects business activity and as it is influenced by business and governmental decisions Topics include: aggregate supply and demand analysis; fiscal and monetary policy; money and banking; the business cycle and macroeconomic forecasting; economic growth; international economic relations; and national economic development. (2 credits) *Prerequisite:* MATH 153

MGT 5230 Quantitative Analysis for Management: Harnessing Nature's Organizing Power by Using Computer Technology to Support Decision-Making

This course covers the most practical quantitative tools for business, including multiple regression for marketing research, linear programming for production planning, and decision trees for choice under uncertainty. Models are typically solved using Microsoft Excel. (2–4 credits) *Prerequisite:* MGT 5170

MGT 5232 Accounting for Decision Makers

Principles of financial and managerial accounting are treated in this course from the perspective of the manager who uses accounting reports rather than the accountant who creates them. The course focuses on the interpretation and analysis of financial statements, generally accepted accounting principles as reflected in the audit process and audit standards, internal control mechanisms, standard costing and variance analysis, cost-volume-profit analysis, and budgeting. (2–4 credits)

MGT 5240 Statistics for Business Process Improvement: Knowledge has Organizing Power

Students will learn key principles of data analysis and statistical thinking that underlie contemporary management approaches to improving business performance and quality through business process improvement, such as the Six Sigma and Lean Six Sigma system employed by leading companies worldwide. Topics include: review of one- and two-sample hypothesis tests for means and proportions, quantifying process performance

using process capability analysis, statistical process control, modeling relationships between process variables using bivariate and multiple regression, and introduction to two-level factorial experiments for improving business performance. (4 credits)

Prerequisites: MATH 153 and MGT 5170 or equivalent.

MGT 5280 Legal and Social Environment of Business: Action in Accord with Natural and National Law

Law guides progress in business. It creates the legal form of the business and enables business people to communicate clearly. It facilitates their commercial relationships and averts problems before they arise. Familiarity with business law and the natural laws upon which it is based promotes success for the individual and society. This course reviews the essential concepts of business law and ethics as managers encounter them.

Topics include: contracts, torts, agency, bankruptcy, secured transactions, and real, personal and intellectual property. (2–4 credits)

MGT 5290 Logistics and Supply Chain Management: Creating the Whole that is More than the Sum of Its Parts

In recent years, companies have broadened their focus from internal process improvements to inter-organizational improvements in logistics and communications along the supply chain. With particular attention to issues in international supply chains, this course covers the logistics of transportation and distribution; Internet-based information systems for order placement, tracking and delivery; metrics for evaluating supply chain performance; and methods for “greening” the supply chain. (2–4 credits)

Prerequisite: MGT 5180 or equivalent

MGT 5310 Sustainable Technologies: Manifesting the Channels of Wholeness

Students explore the rapidly growing field of emerging technologies for renewable energy, transportation, construction, and waste treatment—in order to select one that they will go deeply into during their capstone project. (4 credits) *Prerequisite:* MGT 350

MGT 5311 Seminar in Sustainable Business: Source, Course, and Goal of Knowledge

This course is one of the capstone options for the Sustainable Business specialization. Students read on a subject of their choice under the guidance of the professor and present the results of their research orally to the class in stages during the course and in a final written report to the professor. (4 credits) *Prerequisites:* 12 credits in sustainable business and consent of the instructor

MGT 5312 Capstone Project: Integrating the Knowledge and Skills of Sustainable Business

Students will be guided by faculty in the development of a complete business plan for launching and/or running a sustainable business of their choice. The project will include sufficient real data to allow students to secure the funding and other resources for implementing the model that they develop. (4 credits) *Prerequisites:* 12 credits in sustainable business and consent of the instructor

MGT 5313 Socially and Environmentally Responsible Management: Developing Inner Intelligence to Promote Socially Responsible Action

An increasing number of organizations are concerned about social and environmental responsibilities in the context of sustainable development, and are interested in developing tools to improve their performance and accountability in these areas. This course introduces students to these issues with emphasis on current research in these fields. The key to sustainable progress is to align individual and collective consciousness with total Natural Law available in the Self of everyone. Topics include: business ethics, stakeholder influences, corporate social responsibility, environmental management, natural capitalism, triple bottom line reporting. (2–4 credits)

MGT 5314 Modeling Sustainable Technologies: Knowledge is the Basis of Action

Any business proposal involving sustainable technologies must analyze the performance and economics of the technology. This course trains the student in the use of software tools, such as RETscreen for modeling sustainable technologies. (2 credits) *Prerequisite:* MGT 5310

MGT 5340 Career Strategies: Choosing a Career to Maximize Inner and Outer Fulfillment

The course has a practical focus on career planning and entry into the job market. In the framework of Consciousness-Based principles for success, students consider their own skills, abilities, and objectives, and learn to design a career that utilizes their talents and creativity for maximum effectiveness, achievement, and evolution. They design an action plan to implement their career goals, and then work with the best Internet resources to research business and service organization profiles and industry trends. Students learn networking strategies, practice interviewing techniques, and using the telephone and Internet for extending their professional networks. They also develop scripts for introducing themselves and describing their achievements and capabilities with confidence in various formats, writing about themselves in the cover letter, resume, and portfolio, and speaking about themselves and what they can offer to potential colleagues, funding agencies and employers. (2 credits.)

MGT 5342 Human Resource Management: Designing Systems to Attract, Retain, Motivate, and Nurture the Organization's Most Precious Resource

People are an organization's most important asset. Success comes from organizing and managing people to produce the products and services that customers value. This survey course exposes students to the full array of human resource functions: human resource planning, recruitment and selection, training and development, performance evaluation, and compensation. Topics include: the legal rights and responsibilities of employers employees, and unionization. (2 credits)

MGT 5350 Needs Analysis and Program Evaluation: Utilizing Self-Referral Mechanisms to Improve Performance

Human resource development involves identifying the specific requirements of client organizations and constructing evaluation procedures that accurately document instructional outcomes. Topics include: roles in needs analysis; methods of organizational analysis, operational analysis, and job analysis; specifying objectives and outcome measures; and reporting and using evaluation data. Students apply the techniques of this course in performing the front-end analysis for a project with an actual client. (2–4 credits) *Prerequisite:* MGT 5342

MGT 5360 Training Design: Creating Optimal Learning Opportunities to Fulfill Organizational Goals

The design of effective training programs involves providing learning opportunities that are consistent with learner needs and organizational objectives. This course develops skills in designing instructional programs and materials, and delivery of training. Students apply the skills and understanding gained in the course in a project with an actual client. (2–4 credits) *Prerequisite:* MGT 5342

MGT 5401 Enterprise Resource Planning

In this course, business students learn how Enterprise Resource Planning (ERP) systems permit integration of business functions into one seamless information system. Students receive in-depth training as business functional analysts in finance and control through a specific ERP software application. They will learn a five-step ERP implementation methodology: project preparation, business blueprint, realization, final preparation, and implementation. Then, students apply what they have learned to a business scenario via a simulation. Students experience how business process mapping provides the fundamental, integrated intelligence for all ERP systems. (4 credits). *Prerequisite:* Managerial Accounting at the level of MGT 316 or 5232.

MGT 5410 Information Systems: Knowledge is Structured in Consciousness

Effective managers have a good understanding of information systems and the opportunities provided by rapidly evolving technologies. Students in this course learn the fundamental concepts in the design and management of information systems. Topics include different types of information systems as well as tools and technologies such as networks, hardware, software, services and data. Attention will be paid also to hot new technologies like cloud computing, mobile computing, social networks and predictive analytics, with a focus on their managerial implications. The course will include several case studies and hands-on projects to develop a good understanding of information systems. (4 credits)

MGT 5412 Information Systems Strategy: Knowledge is the Basis of Action

Information systems are a key enabler of a dynamic business strategy. Information Systems consume a significant and increasing portion of an organization's budget. Research has shown that effective governance and deployment of information systems can provide 20% greater return on assets. An MIS professional, aspiring to be a leader, must know how to effectively align and deploy information systems to support business strategy and maximize business performance. This course covers different types of Information Systems strategies and their alignment with business strategy. The course will include several case studies to develop a good understanding of information systems strategy formulation and implementation. (2 credits). Prerequisite: MGT 5410.

MGT 5414 Management of Information Systems: The Organization of Intelligence

Information systems consume 2–20% of an organization's budget. Managing these investments effectively can lead to superior business performance. The purpose of this course is to understand the administration, control, management and governance of computer-based information systems, projects, and relationships with the organization. Topics include scheduling of operations, management of computer professionals, and planning and control of the systems activity. (2 credits) *Prerequisite: MGT 5410.*

MGT 5420 Information Systems Program and Project Management: Guiding the Unfoldment of Knowledge

Good project management skills have become a critical necessity in today's fast paced, dynamic business environment. More and more management tasks are being executed as projects, so skills in project planning, resource allocation and scheduling have become a basic expertise for effective business professionals. Business managers today also need to possess adequate expertise to manage multiple programs and vendors as firms are increasingly relying on external vendors and partners to execute some of their corporate initiatives. Business/IT professionals must know how to manage multiple projects, work with multiple vendors, negotiate and manage subcontracts and effectively execute

IT/business programs. The course covers the fundamentals of project management and includes several case studies and hands-on projects using MS Project to develop a good understanding of project management in information systems. (4 credits). *Prerequisite: MGT 5410.*

MGT 5440 Enterprise Business Processes and Applications: The Flow of Knowledge

Information systems are a key enabler of business processes and work flows in business organizations. Every large and small enterprise has implemented or is considering implementation of enterprise resource planning (ERP), customer relations management (CRM), supplier relations management (SRM), business intelligence (BI) systems and others to provide relevant information just-in-time in a secure way to relevant stakeholders. The purpose of this course is to understand key end-to-end business processes and discuss the key management concepts that can lead to development of competitive advantage for the business. Special attention is given to the implementation of these information systems applications. (4 credits) *Prerequisite: MGT 5410.*

MGT 5450 Data Management Systems: The Organization of Knowledge

This course covers the concepts and methods associated with the definition, structure, creation, and utilization of databases for computer-based information systems. Students will undertake a class project that will require creating the logical design of business database application and implementing it using a current database development platform such as Microsoft Access. (4 credits) *Prerequisite: MGT 5410.*

MGT 5460 Data Warehousing and Analytics: Intelligence Gives an Evolutionary Direction to Change

The amount of data in organizations is growing exponentially, doubling every 18-24 months. Structured data from traditional information systems is now augmented by huge streams of data from devices, social networks, web logs, etc. Organizations that are not prepared for this increasing volume, variety, and velocity of data can drown in these streams of data, while the prepared ones can mine the data for new insights and initiatives almost in real time. This course covers the fundamental concepts of managing and mining data to support business decision-making and drive business value. Topics include analysis, design and development of data warehouses; and data mining tools and techniques, including statistical and machine learning tools, to provide nearly real-time business analytics and intelligence. (4 credits) *Prerequisite: CS 422 or MGT 5450.*

MGT 5480 Electronic Commerce: Towards Unbounded Fulfillment

The Internet is a platform for communication that is instantaneous, nearly costless, and can reach both large populations and narrowly targeted groups. This changes the way firms work with their customers, their supply chains, and even their internal operations,

and it creates opportunities to measure the effectiveness of tactics as never before. This course surveys server and hosting options, network and telephony protocols, markup languages, Web development tools, and electronic commerce packages and analyzes the current best practices in distribution, pricing, and product customization made possible through electronic commerce. Examples of major Internet business models are reviewed, including portals, auctions, community, vertical industries, and automation platforms. Topics include marketing, purchasing, payment, legal, international, tax and ethical aspects of business on the Internet. (4 credits) *Prerequisite:* MGT 350

MGT 5500 Financial Management: Intelligently Directing the Flow of Funds to Achieve the Organization's Strategic Goals

Financial management provides an intelligent direction to the flow of funds for maximizing firm value. This course introduces techniques and concepts necessary to effectively manage the financial resources of any organization in order to achieve strategic goals. Topics include: the time value of money, stock and bond valuation, the CAPM model of risk and return, capital investment decisions, the analysis of financial statements, and cash flow forecasting, and the sources of funding for a business. (4 credits) *Prerequisite:* MATH 153

MGT 5502 Fundamentals of Financial Analysis: Intelligence Gives an Evolutionary Direction to Change

This course for experienced managers reviews the basic ideas of discounted cash flow analysis and then covers Sharpe's CAPM explanation of investors' expected rate of return with applications to share pricing and share issuance. Principles of financial decision-making and capital budgeting are taught using cases and examples. (2 credits) *Prerequisite:* MATH 153

MGT 5510 Corporate Finance: Using Quantitative Tools to Direct Corporate Resources for Strategic Success

This course examines quantitative tools for intelligent management of corporate finances, including: optimum capital structure, analysis of portfolio and risk management, dividend policies, and critical issues related to mergers and acquisitions. Investment decision analysis topics include discounted and non-discounted cash flow analysis, ranking investment projects, income tax implications, and risk analysis. Students discover how various quantitative tools empower decision-makers with broad awareness that sharpens the ability to focus on key variables. (4 credits) *Prerequisites:* MGT 5170, MGT 316, and MGT 350

MGT 5550 Human Resource Development: Unfolding the Full Potential of the Individual

The development of human resources is the most significant responsibility of managers in the knowledge economy. This course surveys the practices of employee training and development, examines research on ways to unfold the creative intelligence of personnel, and looks at the higher stages of human development required for higher levels of managerial responsibility (2–4 credits). *Prerequisite:* MGT 429 or MGT 5342

MGT 5551 Transcendental Meditation Program Teacher Training

This course comprises the Transcendental Meditation Program Teacher Training Course, providing the knowledge and experience of consciousness as the basis of life and preparing one to present the knowledge to others. It also gives an opportunity for personal development through deeper personal experience of the Unified Field of Natural Law and understanding of the Science of Creative Intelligence. Participation in the course does not automatically qualify a student to graduate as a teacher of the Transcendental Meditation program. Further training and fieldwork may be needed before graduation as a teacher. Academic credit for the completion of this course is offered by Maharishi University of Management under a contractual agreement with Maharishi University of Natural Law, Great Britain, who controls the acceptance to the course, the cost of the course, and the content of the course. (variable credits) *Prerequisites:* STC 108/109 or FOR 500, and other prerequisites as established by Maharishi Foundation

MGT 5552 Employee Health and Wellness: The Basis for Success and Fulfillment

The current popularity of employee wellness programs demonstrates that corporate decision makers have a growing understanding of the connection between behavior, health and productivity. This course will review best practices to promote wellness among employees by improving diet, increasing exercise, reducing substance abuse, overcoming the harmful effects of stress, and creating a culture of happiness. The course will also examine the effect that such programs can have on the overall health of the company. (2 credits) *Prerequisite:* one of the following courses: MGT 382, MGT 429 or MGT 5342

MGT 5610 Compensation and Benefits: Giving Is the Basis of Receiving

This course introduces students to organizational compensation, reward, and benefit programs and the theories of employee behavior used in their design and implementation. Topics include: techniques to address external competitiveness (e.g., wage surveys, pay policies), internal consistency (e.g., work analysis and evaluation), recognition of employee contributions (e.g., individual and group merit programs), system administration (e.g., policies and communication), required and optional benefit programs (2–4 credits). *Prerequisite:* MGT 429 or MGT 5342.

MGT 5620 International Finance: Maintaining Cultural Integrity while Promoting Global Prosperity through the International Monetary System and Foreign Exchange Markets

This course provides an introduction to the theory and practice of financial management in an international context. Topics include: the international monetary system, the foreign exchange market, forecasting foreign exchange rates, management of foreign exchange exposure, international investment, and political risk management. (4 credits)

Prerequisite: MGT 5500

MGT 5650 Organizational Development: Unfolding the Full Potential of the Whole

This course studies approaches to developing and maintaining coherent group functioning within organizations and to implementing planned organizational change. Topics include: communication, attitudes, motivation, and decision making as they are relevant to improving individual and group behavior within organizations and to coordinating the introduction and implementation of change within an organization (2–4 credits.)

Prerequisite: one of the following courses: MGT 429, MGT 382 or MGT 5342.

MGT 5660 Human Resource Strategy: Utilizing the Company's Most Precious Resource to Improve Productivity and Achieve Success

This course provides general managers with an understanding of key human resource factors needed to formulate integrated HRM systems that can support business strategies and provide a competitive advantage. Students learn about the processes that explain work behaviors, and how to promote behaviors to implement focused business strategy using staffing, development, and reward systems. The course shows how development of individual and collective consciousness produces effective HRM. Case studies and HR planning exercises relate the course to the students' business goals. (2–4 credits)

Prerequisite: MGT 429 or MGT 5342.

MGT 5680 Advanced Investment Practices: Profiting from the Principle That the Nature of Life Is to Grow

Successful investing provides enormous rewards in terms of freedom and financial security. This course presents modern portfolio theory and covers how to evaluate equity and debt securities, real estate, and commodities, and how to use insurance, options, and futures to hedge risk. Students create a model portfolio based on both fundamental and technical analyses of current and historical market conditions. (2–4 credits) *Prerequisite:* MGT 350 or MGT 5500

MGT 5681 Socially Responsible Investing: Fulfilling Individual and Societal Needs

Socially responsible investing screens companies according to their industry and operational practices, looking for the businesses that will be sustainable in the long run. This introductory course reviews the basics of investment analysis, examines the philosophy that money is colored by how it is earned, and reviews the practices and performance of socially responsible investment funds. (2–4 credits) *Prerequisite:* one of the following courses: MGT 350, MGT 5500 or MGT 5502.

MGT 5682 Green Investing: Guiding Resources Toward Sustainable Business

This course trains an aspiring financial advisor or financial analyst in the methods of research and analysis used to invest in the sustainability sector and to create “green” financial products and services. Topics include: the demand for green financial services, sustainability analysis for securities, screening for green mutual funds, and analysis and use of green ETFs and green derivatives. Course participants will develop a green investment portfolio or a green financial solution. (2–4 credits) *Prerequisite:* one of the following courses: MGT 350, MGT 5500 or MGT 5502

MGT 5690 International Business: Broad Comprehension and Fine Focus to Think Globally and Act Locally

This course explores the issues of marketing, finance, and management as they exist in the international business environment for both a multinational corporation and single businessperson. Differences between business practice in the U.S. and abroad are explored where those differences affect business objectives. Cultural, economic, governmental, and demographic issues are studied through lectures and cases. (2–4 credits) *Prerequisite:* MBA standing

MGT 5700 Business Analysis for Management Accountants: Developing the Ability to Shift Attention from Analysis to Synthesis

Enlightened managers easily move from broad awareness of strategic issues to the fine points of operational business decisions. In this course, students exercise the swing of their awareness by working case exercises in economics, global business issues, internal controls, analytical decision-making, and financial statement analysis. A survey of subjects covered in part 1 of the CMA examination. (4 credits) *Prerequisite:* MGT 316

MGT 5730 Advertising: The Flow of Information from Producer to Buyer

This course explores the approaches to effective advertising necessary to achieve sales and market share objectives. Topics include: review of consumer behavior and buying patterns, differences between individual and corporate buying, defining objectives, expenditure analysis, media selection; and the design, management, and evaluation of advertising programs. (2–4 credits) *Prerequisite:* MGT 378

MGT 5740 Marketing Research: Using Data Analysis to Identify Trends in Collective Consciousness and Assess Support for New Business Ideas

Market research is the first activity that should be conducted when contemplating a new business or governmental activity. It is the means for refining an initial idea to a concept that is maximally supportable by the environment. The course covers specification of information needs, research design methods, sources of marketing information, analyzing and interpreting data, and developing evaluation and feedback systems. (2–4 credits)

Prerequisite: MGT 378

MGT 5750 Internet Marketing

This course presents the core aspects of marketing online, including usability oriented site architectures, pay per click campaigns, search engine optimization, social media and content strategies. Students develop a working website to demonstrate mastery of these concepts. (2–4 credits) *Prerequisite:* MGT 378 or MGT 5780

MGT 5751 Analytics for Internet Marketing

Web analytics is a process that extracts useful business intelligence from data about customer behavior on the Internet. In this course, students learn how to use industry-standard analytics tools to both measure return on investment and make adjustments to online presentations in order to maximize success in achieving key performance goals. (2–4 credits) *Prerequisite:* MGT 5750

MGT 5770 Accounting Reporting and Control: Purifying the Process of Information Presentation by Utilizing Cycles of Rest and Activity

Managers, who experience regular cycles of rest and activity in their mind and body, enliven organizing power. This course offers mini-cases in budgeting, cost management, performance measurement, information management, and external financial statement preparation – all of which facilitate insightful decision-making. A survey of subjects covered in part 2 of the CMA examination. (4 credits) *Prerequisite:* MGT 316

MGT 5780 Marketing Management: Creating a Positive Influence to Attract, Satisfy, and Retain Customers

Marketing is the process of creating exchanges that satisfy individual and organizational objectives. This course covers market research methods to understand consumer behavior and market segmentation with implications for product design and policies on advertising, pricing, distribution, and sales force management. (2–4 credits)

MGT 5781 Green Marketing: Promoting Evolutionary Values

At the heart of sustainable business are customers who want sustainable products and value sustainable practices. This course explores the evolution of market segments in the

sustainability arena, the range of “green” products and services, marketing research for radical product redesign, the role and use of ecolabels, marketing strategies for green products, and the current FTC rulings on environmental marketing claims. (2–4 credits)

Prerequisite: MGT 5780 or equivalent

MGT 5790 International Marketing: Expanding the Range of One’s Influence

This course examines the development of international marketing programs, from the determination of objectives and evaluation of international market opportunities through the coordination of strategies in world markets. It emphasizes the application of basic marketing principles in the global environment, the extent of standardization of marketing programs across several countries, and the selection of appropriate entry strategies for foreign markets (2–4 credits) *Prerequisite:* MGT 378

MGT 5810 Employment Law: Aligning Behavior with Natural and National Law

This course examines the growing body of employment-practices law and its impact on human resource policy and decision-making. Topics include equal employment opportunity and discrimination, occupational safety and health, compensation and benefits, employee protection, and labor relations. Special issues (e.g., adverse impact in employee selection, wrongful discharge, sexual harassment, disabilities) are discussed in the context of statute, case law, and implications for managers in the work setting. (1–4 credits)

MGT 5820 Management and Organization: Expanded Consciousness Is the Basis of Ideal Behavior at the Individual, Team, and Organizational Levels

An understanding of the principles of human behavior at the individual, interpersonal, group, and organizational levels of analysis is critical to successful planning, organizing, and implementation by any manager. This course explores the dynamics of individual and group achievement from the perspectives of both skills and theory. Topics include: general management theory, leadership, delegation and coordination, planning and problem solving, organizational structure, and organizational change. (2–4 credits)

MGT 5821 Leadership and Teamwork: Leading from the Field of All Possibilities

World-class leadership in organizations involves both knowledge about and skills in leading individuals and teams. In this course, students practice effective leadership behaviors, teamwork, and communication through writing emails and making PowerPoint presentations. They also discover leading-edge techniques in behavioral-based interviewing, managing employee performance, and creative employee recruitment techniques. Students will be challenged by individual and small group projects, case studies, *Harvard Business Review* articles, field trips, and guest speakers. (2 credits)

MGT 5830 Mediation and Negotiation: Utilizing the Deepest Principles of Human Nature to Create Win-Win Solutions

This course is a survey of negotiation, mediation, and arbitration methods of resolving disputes without litigation in the public as well as private sectors. Students gain practical negotiation skills through participation in negotiation and mediation workshops and the analysis of case studies. Topics include: understanding the perspective of other parties, analyzing the structure of negotiations, building a productive framework for negotiation, defining objectives and strategy, framing proposals, and finding “win/win” solutions. (2–4 credits)

MGT 5852 Lean Accounting Transformation: Transforming the Flow of Information Using Nature’s Principle of Least Action

As Lean Management techniques sweep the world, accountants are asked to prepare reports and support decision-making utilizing a new set of reporting tools. In this course, students begin with an intensive review of traditional management accounting topics (including cost-volume-profit analysis, variable costing, incremental analysis, and responsibility accounting) each of which are foundational for Lean Accounting. Through case studies, guest lectures, articles, and field trips, students will explore how to: (a) support Lean Management transformation by preparing reports that will facilitate analysis and decision-making, and (b) implement Lean Management techniques to improve internal accounting services. Additional lectures cover contemporary topics in financial accounting including Sarbanes-Oxley Act, US payroll accounting, and US-GAAP. (4 credits) *Prerequisite:* MGT 5142

MGT 5853 Systems for Developing Organizational Excellence: Maximizing Sustainable Organizational Brilliance

In the past ten years, business leaders around the world have developed new methodologies to steer their organizations towards sustainable achievement of “Triple Bottom Line” success, i.e., financial results, social responsibility, and environmental stewardship. In this course, students will learn about the major programs for developing organizational excellence including Six Sigma, Lean Management, Balanced Scorecard, Continuous Process Improvement (kaizen), and other best practices methodologies. (2 credits)

MGT 5854 Lean Management Principles: Managing According to Natural Law

Through selected journal and website articles, students are introduced to the basic concepts of Lean Management as exemplified in the Toyota Production System. The elements, rules and tools of lean are explored as a methodology for aligning an organization’s strategic and operational plans to be consistent with Nature’s organizing

principles. Students write essays and take online quizzes to demonstrate mastery of the material. (2 credits)

MGT 5855 Lean Accounting I: Transformation through Organizational Self-referral

To effectively support lean management initiatives, accountants must embrace new procedures to prepare management reports that focus on inventory size reductions, tracking of waste and failure costs, and improved productivity and occupancy costs. They must reveal the causal factors that drive lean success. They must think creatively about how to structure compensation systems that encourage lean behaviors. Through articles, case studies, lectures, and written assignments, students will gain a solid foundation for facilitating lean transformation. (2 credits) *Prerequisite:* MGT 5142

MGT 5856 Lean Accounting II: Creating Coherence in the Flow of Accounting Services

In this course, students learn how to apply the concepts of lean management to streamline accounting processes and to better meet the needs of the internal customers who use accounting services. Students learn how to assess internal customer requirements, how to map accounting value streams, how to identify non-value added activities, and how to conduct kaizen events to continuously improve accounting services. (2 credits) *Prerequisite:* MGT 5855

MGT 5857 Cases in Lean Management and Accounting: Sharpening the Intellect to Improve Performance

Through detailed case studies and articles, students dig deeply into the details of how organizations have applied lean concepts to improve key management systems and accounting business processes. Topics include: performance metric systems, revised compensation incentives, revised management accounting reports, work cell box scores and balanced scorecard implications. (2 credits) *Prerequisite:* MGT 5855

MGT 5858 Implementing Lean Accounting in Organizations: Applying the Principle of Least Action for Maximum Success

In this course, students are required to either implement some aspect of lean accounting within their organization or to write an instructional case study on some aspect of lean accounting. Faculty approves projects based on proposal submissions. Guidelines will be provided on case study write-ups. (2 credits) *Prerequisite:* MGT 5855

MGT 5859 U.S. and International Accounting Practices: Order is Basis of Success

In this course for experienced international accountants, important topics are covered to orient accounting professionals to the USA workplace. Students learn the US-GAAP

procedures for accounting for payrolls, uncollectible accounts receivable, marketable securities, periodic and perpetual inventories. Additional topics include preparation of financial statements, provisions of Sarbanes Oxley Act, convergence issues regarding IFRS, financial ratios for investments, and foundations of strategic planning. Students begin a comprehensive review of managerial and cost accounting. By examining the rules and regulations for economic order in the USA, students appreciate the framework for building their professional success. (2 credits)

MGT 5881 Sustainable Community Development: Building a Whole that is More Than the Sum of Its Parts

The aspiration of individuals to meet present needs without compromising the ability of future generations to meet their needs is most effectively undertaken on the community level. This course will focus on how to foster sustainable communities through public policy, corporate citizenship, economic development, and social marketing. As part of the course, students will prepare and give presentations to local community leaders to inspire and help them take action. (2–4 credits) *Prerequisite:* MGT 382

MGT 5882 Program Impact Evaluation and Policy Oversight

Publicly funded programs should have demonstrable effects, and those effects should in some way outweigh the costs of the program. The Government-Wide Monitoring and Evaluation System and the Outcomes Performance Management System provide a framework for public resource management monitoring and oversight. The evaluation research process includes evaluation design, measure selection, data collection, and data analysis and presentation of findings to demonstrate program impact. Tools for public resource management monitoring include budget analysis, expenditure tracking, performance monitoring, integrity monitoring, and oversight tracking. (2 credits)

MGT 5883 South Africa Legislative Framework

The Constitution of the Republic of South Africa defines the legislative framework. This course presents the processes and requirements that can take place before a bill becomes a Law. It deals with the various types of bills and who may initiate a bill, and how bills are passed. Topics include: the drafting green papers, white papers, and bills. (2 credits)

MGT 5910 Practicum Away: Stabilizing Knowledge Gained with Practical Experience

Action creates the steps of progress. Students gain hands-on accounting experience with a U.S. company as a financial analyst, staff accountant, internal auditor or another type of accounting-related work. Training goals and objectives will be developed in conjunction with the on-site company supervisors. Students write a case study based on their experience at work. (2–4 credits)

MGT 5930 Topics in SCI and Management: Applying the Organizing Power of Nature's Management

Contacting the source of pure intelligence within the individual is the foundation of ideal management. This course covers a variety of topics in the Science of Creative Intelligence. (1–4 credits — may be repeated for credit)

MGT 5940 Industry Analysis for Strategic Planning: Analyzing the Wholeness to Create Future Expansion

The goal of this course is to cultivate the holistic and specific values of management in the awareness of the student so that whatever management responsibility one may have, the process of management is always spontaneously upheld by the infinite organizing power of Natural Law. This capstone course weaves together the student's knowledge of the specific areas of accounting, finance, marketing, operations, and management and organization. Students research a firm in the context of its industry to identify the firm's strengths, weaknesses, opportunities and threats. Each student's project concludes with either an evaluation of the firm's apparent strategy, a strategy formulation for the firm, or a valuation of its stock. (4 credits) *Prerequisites:* MGT 315, MGT 378, and MGT 350

MGT 5941 Business Process Modeling: Smoothing the Flow of Consciousness

In this course, business analysts learn how to effectively communicate with IT professionals who are developing data solutions for management. This course is ideal for non-technical business analysts and management accountants. Through the knowledge of UML Business Analysis, students learn how to combine business knowledge, financial processes, policies and rules to support the IT team. (2 credits) *Prerequisite:* MGT 5180

MGT 5942 Business Process Modeling Project: Smoothing the Flow of Consciousness

In this course, students apply the knowledge of business process modeling to a practical problem. They will successfully impart the business and financial reality of an organization to IT experts. They will produce precise, comprehensive, standardized text and diagrams that are easy to understand and that tie together business and financial realities. Students learn how to create the path of least resistance in communication by utilizing the flow of consciousness. (2–4 credits) *Prerequisite:* MGT 5941

MGT 5970 Special Topics in Management

This course covers advanced topics in management approved by the department chair for a single offering by a faculty member. (2–4 credits)

MGT 5980B Business Internship: Skill in Action

During internships students apply the knowledge from their management courses in supervised practical settings. (3 credits) *Prerequisite:* consent in the form of a written authorization by the International Student Advisor

MGT 5980U University Internship: Skill in Action

During internships students apply the knowledge from their management courses in supervised practical settings. (3 credits) *Prerequisite:* consent in the form of a written authorization by the International Student Advisor

MGT 5990 Directed Study

(variable credits) *Prerequisite:* consent of the Department faculty

MGT 601 Organizational Behavior Theory and Research:

A review of the classic works in the Organizational Behavior (OB) literature, this course examines the main issues and questions addressed by OB since its inception in the late 1930s, including motivation, small group behavior, leadership, power, and organizational culture and change. Students will develop hypotheses for how expansion of consciousness influences organizational behavior. (4 credits)

MGT 606 Socially and Environmentally Responsible Management: Developing Inner Intelligence to Promote Socially Responsible Action

An increasing number of organizations are concerned about social and environmental responsibilities in the context of sustainable development, and are interested in developing tools to improve their performance and accountability in these areas. This course introduces students to these issues with emphasis on current research in these fields. The key to sustainable progress is to align individual and collective consciousness with total Natural Law available in the Self of everyone. Topics include: business ethics, stakeholder influences, corporate social responsibility, environmental management, natural capitalism, triple bottom line reporting. (2–4 credits)

MGT 607 Assessing Human Development: Measuring Growth of the Sustainable Mind

Scientific measurement of individual characteristics provides a research framework for assessing individual and organization development toward higher states of consciousness. Development of the mind toward higher states of consciousness provides the natural foundation for enhancing employee performance, growth of enlightened leadership, and organization transformation toward sustainability. Topics include: the construction and use of valid and reliable assessment instruments. (4 credits)

MGT 628 Introduction to Multivariate Data Analysis: Gaining More Comprehensive Knowledge through Expanded Awareness

This course provides a conceptual introduction to the multivariate statistical methods most commonly used in management research in order to prepare students to critically read the quantitative management research literature and begin preparation of their own dissertation research proposal. Topics include: review of simple linear regression and correlation, multiple regression, logistic regression, discriminant function analysis, univariate comparison of means (analysis of variance), multivariate analysis of variance, principal components and factor analysis, path analysis and structural equation modeling, and multilevel modeling. (4 credits) *Prerequisite:* MGT 5170

MGT 631 Multiple Regression Analysis: Discovering the Order and Precision of Nature's Intelligence

This course examines contemporary procedures of applied multiple regression analysis for business data. Topics include: review of simple regression, hypothesis tests and confidence intervals, modeling nonlinear regression relationships, model specification strategies, diagnostic testing of model adequacy, robust regression, categorical explanatory variables, outliers and influential observations, path analysis, and logistic regression. (4 credits) *Prerequisite:* MGT 628

MGT 634 Applied Multivariate Data Analysis: Gaining Holistic Knowledge through Broader Comprehension

This course provides a hands-on introduction to applied multivariate analysis in management research. Students analyze real data sets using state-of-the-art software. Particular attention will be devoted to the selection of appropriate method, interpretation and description of results, and checking of assumptions. Topics include: univariate analysis of variance and covariance, multivariate analysis of variance and covariance, principal components and factor analysis, confirmatory factor analysis, and discriminant analysis. (4 credits) *Prerequisite:* MGT 628

MGT 635 Quantitative Research Design: Unified Knowledge through Subjective and Objective Approaches

This introductory course begins with the logic of causation and correlation in social science. We review the steps of scientific inquiry: literature review, theory development, operationalization and measurement of variables, data collection and analysis, interpretation, and write-up. Experimental and quasi-experimental research designs are treated specifically. Topics include: the types of validity, the “control” of extraneous influences by design or by statistical methods, and the relationship between research design and statistical testing. (4 credits)

MGT 636 Qualitative Research Methods: Researching from the Field of Pure Subjectivity

Qualitative research is often used in research on complex behavioral systems and in the exploration of a new field of study. Using methods such as participant observation, unstructured interviewing, and the examination of documents, a scholar can form theories that may be later tested by quantitative methods or validated on other samples. Particular attention is given in this course to the methodology of grounded theorizing in multiple case studies and problems of data analysis, interpretation, and generalization. (4 credits)

MGT 676 Implementing Sustainability: Creating an Ideal Society

What are the findings of behavioral sciences regarding effective practices for the transformation of organizations and communities toward sustainable strategies and practices? This course will examine selected research on topics such as the role of human resource management in achieving a firm's environmental goals, transformational leadership, change management, creativity, cross-boundary collaboration, motivation for performance improvement, individual and team behavior. As individual, organizational, and societal consciousness become more established in the unified field of natural law, sustainable solutions will gain more frictionless implementation. (4 credits) *Prerequisite:* MGT 601

MGT 678 Outcomes Measurement for Sustainable Business: Attention Enlivens Action in Accord with Natural Law

A cutting edge of research in sustainable management is the development, adoption and validation of systems for measuring and reporting sustainability outcomes. This course reviews current research regarding measures used in "triple bottom line" reporting: financial performance, employee health and wellness, social responsibility, and environmental impact. The course also covers the processes for creating and institutionalizing new standards for performance at the level of the product, plant, firm, and society. (4 credits)

MGT 679 Research Seminar in Sustainable Management: Perceiving Subtler Knowledge Through Refined Awareness

Topics in sustainable management will be chosen according to current research interests of students and faculty. (2–4 credits)

MGT 689 Preparation for the Comprehensive Examination: From Broad Comprehension to Sharp Focus — Calling upon the Brain's Total Potential

The comprehensive examination assesses the student's ability to express and apply the knowledge from the courses in the Ph.D. program. Students are registered for this course while preparing for and writing the comprehensive examination. (4 credits)

MGT 690 Preparation for the Qualifying Examination: Effective Planning from the Field of All Possibilities

This course provides the time necessary to prepare for the qualifying examination, which demonstrates research competence. It may be in the form of a research proposal, or in another form at the discretion of the program faculty. After successful completion of this examination, students advance to the status of Ph.D. Candidate. (2–4 credits — may be repeated for credit) *Prerequisites:* completion of all core curriculum and consent of the graduate faculty

MGT 692 Seminar on Writing: Communicating Knowledge in Terms of Wholeness

This course prepares doctoral students to be competent in the conception, organization, writing, and presentation of scholarly works. (2–4 credits)

MGT 693 Seminar on Teaching: Creating a Frictionless Flow of Knowledge

This course prepares doctoral students to be competent teachers. Topics include: curriculum design; effective use of lecture, questioning, class discussion, and team-based learning; appropriate and effective use of supporting materials; and construction of effective means to assess student learning outcomes. (2–4 credits)

MGT 698 Research Practicum: Stabilizing Knowledge through Practical Action

Students develop research skills through hands-on experience in research activities such as literature review, instrumentation, data collection, data analysis, and report writing. (2–4 credits)

MGT 699 Directed Study

(variable credits) *Prerequisite:* consent of the Ph.D. Program Director

MGT 700 Preparing the Dissertation Proposal: Elaborating the Seed Idea from Wholeness to Point Using Nature’s Sequential Steps of Progress

Having gained doctoral candidacy by completing the comprehensive and qualifying examinations, students prepare a proposal for a doctoral dissertation that is acceptable to their major professor and dissertation committee. (2–4 credits — may be repeated for credit) *Prerequisites:* Ph.D. candidate status and consent of the dissertation advisor

MGT 701 Dissertation Research: Research into the Transcendental Field of Consciousness as the Basis of Personal, Business, and Academic Success

Students conduct original research and prepare their dissertations. (2–4 credits — may be repeated for credit) *Prerequisites:* approved dissertation proposal and permission of the dissertation committee

Government Courses

GOV 201 U.S. Government and Politics: The Natural Law Theory of the Founding Fathers and Its Application in Modern Times

This course studies the nature and functioning of U.S. governmental institutions and the American political process. Topics include: the Constitution; the Presidency, Congress, Supreme Court and Judicial Branch; administrative and regulatory agencies; political parties and elections; the process of policy formulation and implementation; special interest groups; the role of public opinion and the media; and the relationship between government and national consciousness. (4 credits)

GOV 280 International Relations and Peace: Applying Principles of Cultural Integrity, Invincibility, and World Harmony to International Relations

This course examines contemporary international relations with an emphasis on the search for effective means to reduce and prevent armed conflict, enhance international cooperation, and promote world peace. Students will analyze in-depth case studies and write policy papers on key issues in international relations. (4 credits)

GOV 290 Government and Collective Consciousness: Understanding and Utilizing the Group Dynamics of Consciousness to Create Permanent World Peace

From the perspective of the Science of Creative Intelligence and Maharishi Vedic Science, students explore the principles and dynamics of collective consciousness and their relationship to governmental functioning, societal trends, and the quality of life in society. Students examine published evidence verifying the beneficial changes in society produced by the group practice of the Transcendental Meditation and TM-Sidhi programs, with particular reference to the implications of these technologies of consciousness for enhancing governmental achievements and promoting world peace. (Offered jointly with the Department of Maharishi Vedic Science) (4 credits)

GOV 400 Special Topics in Government: Exploring the Field of All Possibilities in Government

Possible topics include international trade and competitiveness, health economics and health policy, public sector management, comparative government, and international organizations and regimes. (4 credits — may be repeated for credit) *Prerequisite:* consent of the Department faculty

GOV 402 Global Environmental Politics and Policy: Developing Policies That Recognize and Support the Interconnectedness of Human Beings and Nature

This course analyzes the politics of global environmental protection with an emphasis on the study of policy options to solve and prevent environmental problems throughout the world. Among the issues to be discussed are genetic engineering of food products,

pesticide and other chemical contamination in agriculture, global warming, trans-boundary shipment of toxic waste, air and water pollution, and deforestation. Students will analyze several in-depth case studies and write policy papers. (Offered jointly with the Department of Sustainable Living) (4 credits)

GOV 420 Economic Analysis of Environmental Policy: Allocating Global Resources Effectively

This course applies key principles of environmental economics to the analysis of issues of environmental policy and environmental management. Lessons for environmental policy are derived by studying the effectiveness and limitations of current environmental and resource policies with respect to several key contemporary challenges to the national and international environment. No previous study of economics is required. (Offered jointly with the Department of Sustainable Living) (4 credits)

GOV 445 Environmental Law: Connecting National Law with Natural Law to Protect the Environment from Global Warming, Pollution, and Resource Depletion while Creating Abundance for All Nations

From local regulations about water quality to global initiatives like the Kyoto Accord, the law is an important tool for regulating our use of the environment. During this course, students will become familiar with international treaties and protocols on global warming, pollution, and endangered species. The class will also study the key features of American environmental law including the Clean Air and Water Act, the Environmental Protection Act, and other current policies and regulations. Perhaps most importantly, students will understand the lawmaking process as a way to use the legal system to bring about positive change and build sustainable communities. (4 credits)

GOV 484 Mediation and Negotiation: Utilizing the Deepest Principles of Human Nature to Create Win-Win Solutions

This course is a survey of negotiation, mediation, and arbitration methods of resolving disputes without litigation. Students gain practical negotiation skills through workshops and case studies. Topics include: strengthening communication skills, understanding other parties' needs and goals, building a productive framework for negotiation, defining objectives and strategy, framing proposals, and finding "win/win" solutions. (This course is the same as MGT 484.) (2–4 credits)

GOV 498 Internship in Government: Developing Skill in Action

This course gives students practical experience in a branch of national government or in state or local government. Students maintain journals that record their experiences during their internships. Students pay their own transportation costs, if travel is required. (4

credits — may be repeated for credit) *Prerequisites:* consent of the School and the Academic Standards Committee

GOV 499 Directed Study

(variable credits) *Prerequisite:* consent of the Department Chair

College of Computer Science and Mathematics

DEPARTMENT OF COMPUTER SCIENCE

FACULTY

- Greg Guthrie, Ph.D., Dean of the College of Computer Science and Mathematics, Professor of Computer Science
- Keith Levi, Ph.D., Chair, Associate Professor of Computer Science
- Bruce Lester, Ph.D., Professor of Computer Science
- Ralph Bunker, Ph.D., Assistant Professor of Computer Science
- Clyde Ruby, Ph.D., Assistant Professor of Computer Science
- Peter Just, M.S., Assistant Professor of Computer Science
- Steve Nolle, M.S., Assistant Professor of Computer Science
- Solomon Seifu, MBA, M.S., Assistant Professor of Computer Science
- Joseph Lerman, M.S., Instructor of Computer Science
- Michael Zijlstra, M.S., Instructor of Computer Science
- Ziv Soferman, Ph.D., Adjunct Associate Professor of Computer Science
- Ali Arsanjani, Ph.D., Adjunct Assistant Professor of Computer Science and Management
- Helmuth Trefftz, Ph.D., Visiting Associate Professor of Computer Science

INTRODUCTION

With the rapid advances in science and technology during the last few decades, computing systems have risen to become the key technology that supports and expands almost every area of life, from education and research to commerce and entertainment. With the recent growth of networking systems and the global Internet system connecting millions of people and almost every educational, research, and business institution in the world, computing has become the most powerful and pervasive aspect of modern technology and a vital element of success in almost every area of life.

Today we live in an information-based society. Fundamental knowledge of how computers and computing systems work is a vital part of modern life. The universal role of computing and the great power that it brings to all areas of life is based on the ability

of computing systems to represent and reason about the knowledge that is at the basis of any area of application.

Computer science is the study of these structures and dynamics of information, and their expression into progress and machines. It creates a new and exciting area that merges aspects of mathematics and electronics to form a new discipline of software and computing systems. This allows one to describe abstract concepts or knowledge from any area of interest, and then create powerful systems that produce concrete results — the flight of a satellite, a computer graphics system for movies, scientific computation, management information systems, or desktop word processing.

With such broad areas of application, a computer scientist must have a strong background in both the foundations of knowledge on which these systems are organized, and the principles which are used to create and apply computing to all of these diverse areas of life. Clearly, a computing professional enjoys the ability to work in one of the most exciting and leading areas of technology today and one of the most important areas for the future.

Our computer science programs prepare graduates for success in this field by providing comprehensive knowledge of the discipline and the ability to think clearly and precisely.

Programs Offered

- B.S. in Computer Science
- Minor in Computer Science
- M.S. in Computer Science offered in three formats:
 - 1) a one-year program full time on campus for students with a bachelor's degree in computer science.
 - 2) a three-year on-campus internship program for students with a bachelor's degree in computer science. Students in this program enroll in practicum and directed study courses for two years and are placed in curricular practical training work assignments at the University. The third year is full-time course work.
 - 3) a two-year cooperative program for students with a bachelor's degree in computer science and at least two years of relevant work experience. Students in this program take one year of full-time course work at the University (or through Distance Education) and one year of directed study through a cooperative job placement. (Note: Most costs for this program are covered through internships in American information technology companies.)
- Post-Graduate Certificate in Computer Science
- Specialization in M.S. in Computer Science

SPECIAL FEATURES

- Our programs develop outstanding computer professionals. Graduates are well prepared for careers in business, government, education, or research. Students become thoroughly grounded in programming languages, computer architecture, computer systems, and theory of computation. In addition, they gain experience in applied computer science areas such as computer graphics, compilers, databases, and networking.
- Our students are enjoying notable professional success in industry and education, including Microsoft, IBM, AT&T Bell Labs, Cisco Systems, First Data Corp., Caterpillar, SITA, Bluestem Systems, Google, Commerce Clearing House, Amazon, Marathon Photo, LHS Communications Systems, Software Artisans, and various universities.
- Students develop the essentials for success in the computer science profession, and all areas of life — problem-solving ability, logical thinking, creativity, broad comprehension, and fine focus of attention.
- Students gain experience with the most advanced operating systems and computer environments including Microsoft Windows and Linux.
- Students study the unifying theory of programming languages and explore a variety of modern languages and approaches to programming in various classes, for example, Java and C# (for enterprise and large-scale systems), Python and Ruby (for Web development) and “ML” (for research in the functional approach to programming). Other specialized languages are taught as needed.
- Our faculty use an effective teaching approach that creates a learning environment of ease and enjoyment without the stress and strain that commonly accompany a rigorous discipline.
- Students study the basic principles underlying all computer hardware, and examine principles that have given rise to the most recent advances in high-performance and super computing systems, including *networked*, *parallel*, *distributed*, and *highly concurrent* approaches. Each of these systems uses many computers in combination to solve a large computational task, but they differ in their scope and approach.
- The Department of Computer Science has several very well equipped computing laboratories, which provide Internet access, as well as the departmental network, and campus network. A variety of servers provide support for classes, development, and research activities. Students can also access a wide variety of resources, including scanners, printers, and other campus services including the library online catalogue and materials.

- High-speed campus and Internet access is provided to student housing, all student labs, and several other access places around campus.
- Occasional field trips and guest lectures by successful computer professionals are offered to provide students with the latest developments in computer science and their practical applications in science and industry.
- The electronic computer is amazingly powerful, and yet is limited compared to the computing ability of the 100-billion neuron parallel processing capability of the human brain. This vast capability of the brain physiology is directly cultured through the University's curriculum, so that graduates not only master computer science, but also grow in the ability to spontaneously operate from the total potential of their own brain physiology and make right decisions without mistakes.

DEPARTMENTAL REQUIREMENTS

Entrance Requirements for the Computer Science Major or Minor

Before entering the computer science major or minor, students must successfully complete the course Intermediate Algebra (MATH 153) or its equivalent.

Graduation Requirements for the Bachelor of Science Degree in Computer Science

To graduate with a B.S. in Computer Science, students must successfully complete all general requirements for the bachelor's degree. (Please refer to "Degree Requirements" in "Academic Policies.") As part of these requirements, students must complete 80 credits of course work as listed below. In addition, students must have a minimum 2.5 cumulative grade point average in all computer science courses.

The following required courses:

- CS 201 Computer Programming 1
 - CS 203 Computer Programming 2
 - CS 220 Fundamental Data Structures
 - CS 222 Algorithmic Data Structures
 - CS 262 Digital Logic and Computer Organization
 - CS 362 Computer Architecture
 - MATH 272 Discrete Mathematics
 - MATH 281 Calculus 1
 - MATH 282 Calculus 2
 - MATH 286 Linear Algebra 1
 - MATH 351 Probability
- plus 28 additional credits of computer science courses 300 or above
plus 8 credits of course work in management to equal 80 credits

Requirements for the Minor in Computer Science

To graduate with a minor in computer science, students must complete the following required courses:

- CS 201 Computer Programming 1
- CS 203 Computer Programming 2
- CS 220 Fundamental Data Structures
- CS 222 Algorithmic Data Structures

plus additional credits of computer science courses to equal 28 credits

Entrance Requirements for the Master of Science Degree in Computer Science

To be admitted to the M.S. in Computer Science program, students must hold a bachelor's degree with an undergraduate grade point average of at least 3.0 ("B") and submit scores from the Graduate Record Examination (GRE). In addition, students must have a background in computer science corresponding to the following courses:

- CS 201 Computer Programming 1
- CS 203 Computer Programming 2
- CS 220 Fundamental Data Structures
- CS 222 Algorithmic Data Structures
- CS 262 Digital Logic and Computer Organization
- CS 310 Systems Programming
- CS 350 Programming Languages
- CS 362 Computer Architecture
- MATH 272 Discrete Mathematics

Students without this background can take the needed course work at the beginning of the program, thus increasing the length of the program up to one year. In this case, the grade for the undergraduate prerequisite course work will not be included in the GPA for the Master of Science program.

Four additional mathematics courses are also required for admission:

- Calculus 1 (MATH 281)
- Calculus 2 (MATH 282)
- Linear Algebra I (MATH 286)
- Probability (MATH 351)

Students lacking one of these mathematics courses may be accepted with the understanding that this deficiency will be made up in addition to their regular program of study.

This required background in mathematics and computer science could be acquired through course work at the University or elsewhere, or through equivalent professional work experience.

Transfer credit for graduate courses taken at other qualified universities are limited to a maximum of two courses (8 credits). Additional graduate study can be applied to waive specific course requirements, but not to reduce the number of credits required to graduate.

Graduation Requirements for the Master of Science Degree in Computer Science

To graduate with an M.S. in Computer Science, students must successfully complete all requirements for the master's degree. (Please refer to "Degree Requirements" in "Academic Policies.") Program requirements are:

- 1) 40 credits of computer science courses at the 400 level or above.
- 2) At least one of the following must be completed with a grade of "B" or better:
 - CS 435 Algorithms
 - CS 505 Advanced Programming Languages.
- 3) Two courses (8 credits) of computer science courses at the 500 level that have been completed with a grade of "B" or higher.
- 4) The cumulative grade point average for Computer Science courses at the 400 level and above must be at least "B" (GPA of 3.0) or higher. In addition, grades lower than a B are assigned low-grade points " (i.e., B- is 1, C+ is 2, etc). No more than a total of 4 such low-grade points will be allowed in the 40 credits of computer science course work required for graduation.
- 5) If the master's thesis option is selected by the student and approved by the faculty, then Master's Thesis Research (CS 588) with an oral defense may be used to satisfy up to 8 credits.
- 6) If, upon admission to the program, the student lacks one of the required mathematics courses, it can be taken to satisfy 4 of the 12 credits of additional computer science course work, if approved by the Department.

Entrance Requirements for the Master of Science Degree in Computer Science, Internship Program

Entrance requirements for this program are the same as for the M.S. program listed above. Students who have some deficiencies in these entrance requirements may be provisionally admitted to the program and allowed to make up these deficiencies as part of the directed study program during the first year of the program or in an additional year of full-time study.

Graduation Requirements for the Master of Science Degree in Computer Science, Internship Program

To graduate with an M.S. in Computer Science, Internship Program, students must successfully complete all general requirements for the master's degree. (Please refer to "Degree Requirements" in "Academic Policies.") In addition, the following 66 credits of course work are required:

- 36 credits of course work corresponding to the standard M.S. program listed above
- 10 credits of practicum course work:
 - CS 576 Practicum in Software Development II
 - CS 591–596
- 20 credits of directed study course work

NOTE: The Forest Academy requirement for this program is either FOR 500 or FOR 501.

Entrance Requirements for the Master of Science Degree in Computer Science, Cooperative Program

Entrance requirements for this program are the same as for the standard M.S. program listed above.

Graduation Requirements for the Master of Science Degree in Computer Science, Cooperative Program

To graduate with an M.S. in Computer Science — Track III, Cooperative Program, students must successfully complete all requirements for the master's degree. (Please refer to "Degree Requirements" in "Academic Policies.") Program requirements are the same as for the M.S. in Computer Science standard program with the following modifications: 44 credits of instruction are required, including,

- 36 credits of course work corresponding to the standard M.S. program listed above
- 8 credits of Practicum (CS 575–CS 579)

NOTE: The Forest Academy requirement for this program is either FOR 500 or FOR 501 in the first semester plus one two-week Forest Academy course (FOR 411–499) for each semester enrolled on the standard schedule.

Entrance Requirements for Post-Graduate Certificate (PGC) in Computer Science

The Post-Graduate Certificate program is offered to students who have graduated from the University's M.S. in Computer Science program (or have completed all of the degree requirements). This includes any student who has completed all academic requirements

for the M.S. in Computer Science degree (3.0 CS GPA or above). The purpose of this advanced program is to prepare a student to be a leader in some specific area of the computing field.

Areas of Instruction in the Post-Graduate Certificate Program include:

- Computer Systems (Operating Systems, Parallel Programming, Computer Security)
- Programming Languages (Compilers, Advanced Programming Languages, Advanced Software Development, Parallel Programming)
- Network and Web Computing (Distributed Computing, Distributed Architecture, Parallel Programming, Networks)

Graduation Requirements for Post-Graduate Certificate in Computer Science

The program is one year in length, during which students must complete three 4-unit graduate-level courses in a specific area of computer science, as well as at least 8 credits of authorized Curricular Practical Training (CPT), with a cumulative GPA of 3.0 or above.

Graduation Requirements for Post-Graduate Certificate in Computer Science

The Post-Graduate Certificate program has additional graduation requirements for students who have a Master's degree in Computer Science from another university. This track of the program is 18 months in length, during which students must complete five 4-unit graduate-level courses in a specific area of computer science (with three of those courses being at the 500 level). In addition, students must complete the Science of Creative Intelligence course (SCI 500), one two-week Forest Academy, CS 401 (Modern Programming Practices), and at least 8 credits of authorized Curricular Practical Training (CPT).

COURSES

Undergraduate Courses

CS 101 Nature's Cosmic Computing: Harnessing the Organizing Power of Knowledge

This course investigates the most fundamental knowledge at the basis of all computing and modern computer technology, and how it is connected to principles of Maharishi Vedic Science. We will look at the structure of computing itself, of computer science, and of the wide range of computing applications that are primary to all areas of professions and life today. (4 credits)

CS 105 CCTS: Problem Solving with Computational Thinking: Using the Field of all Possibilities as the Source for All Solutions

(4 credits) *Prerequisites:* STC 108, taken during students' first semester or with consent of the Department faculty

CS 200 Introduction to Computer Science: Creating Games and Animated Stories

This course uses 3-D computer animation technology to introduce computer-programming concepts in a lively and creative setting. Students explore creative story telling and animated games while learning object-oriented programming techniques.

Topics include: the principles of programming and game design techniques. (4 credits)

CS 201 Computer Programming 1: The Language of Computing — Expressing the Intelligence that Guides Computation

This course introduces the fundamental concepts related to computer programming, preparing students with the skills to write basic computer programs, and the knowledge to understand basic programs written by others. Topics include: Java built-in data types, flow control using conditionals and loops, arrays, console I/O, static methods, recursion, using libraries, and using classes to create their own data types. (4 credits) *Prerequisite:* MATH 153

CS 203 Computer Programming 2: Greater Knowledge and Expression in Programming Languages

This course takes a deeper look at programming in Java, focusing on object oriented concepts and creating GUI applications. Topics include: classes and objects, primitives and references, inheritance and polymorphism, interfaces and abstract classes, exception handling, GUI programming in Swing, and serialization and file I/O. (4 credits)

Prerequisite: CS 201

CS 220 Fundamental Data Structures: Fundamental Structures of Information at the Basis of All Computation

Students use computer programming laboratory problems to apply the principles of data structure organization in a practical environment and develop advanced programming skills. The organizing power of knowledge is found to be the source of order in computer data structures. Topics include: abstract data types, internal representation of data, stacks, queues, linked lists, sparse arrays, searching and sorting algorithms, dynamic storage allocation, and computing time of programs. (4 credits) *Prerequisites:* MATH 162 and CS 203

CS 222 Algorithmic Data Structures: Information Structures to Represent Larger Systems

Students continue the study of high-level data organization techniques. Topics include: hash tables, representations and algorithms for trees (including binary search trees, heaps, red black trees, 3-4 trees and B-trees), and representations and algorithms for graphs. (4 credits) *Prerequisite:* CS 220

CS 262 Computer Organization and Digital Logic: The Physiology at the Basis of All Computers — The Logical and Physical Structures of Digital Computation

This course presents the internal structure of a computer, an introduction to assembly language, and the design of digital logic circuits and their use in structuring the various functional components of a computer, such as the memory and central processing unit. Topics include: machine organization, machine language, assembly language, logic gates, flip-flops, decoders, multiplexers, registers, combinatorial logic, and sequential circuits. (4 credits) *Prerequisite:* MATH 153

CS 272 Discrete Structures: Models and Mathematics of the Structures of Natural Law at the Basis of Computation

Discrete mathematics is becoming increasingly important because of its wide applicability in computer science, as well as in management and the other sciences. Two key processes in discrete mathematics studied in this course are algorithmic problem solving and recursion. Topics include: logic and sets, graph theory, and difference equations. (Same as MATH 272) (4 credits) *Prerequisite:* MATH 162

CS 310 Systems Programming: Connecting Hardware and Software — The Most Fundamental Level of Software in the Operating System

Students learn the systems programs that link the outer activity of high-level programming languages with the internal activity of the computer hardware. Knowledge of this deeper level of systems programs gives a greater range of possibilities to the programmer. Students learn system software such as compilers, linkers, loaders, and debuggers, and the structure and functions of an operating system including device

management, process management, system calls, and memory management. (4 credits)

Prerequisites: CS 222 and CS 272

CS 335 Software Development: Applying Knowledge of Software Systems for Greater Skill in Action

In this course, students participate in a comprehensive system development project to apply and integrate the concepts of software design and implementation. Topics include: methods and tools for large system development including analysis, design, testing, and documentation. Students work in teams to develop a substantial programming project. (4 credits each) *Prerequisite:* CS 222

CS 336 Software Development Laboratory: Practical Experience in Applying the Knowledge of Computer Science to Create Software Systems

In this course, students participate in a comprehensive system development project to apply and integrate the concepts of software design and implementation. Topics include: methods and tools for large system development including analysis, design, testing, and documentation. Students work in teams to develop a substantial programming project. (4 credits each) *Prerequisites:* CS 222 and 335

CS 350 Programming Languages: The Abstractions at the Basis of Programming Languages — Gaining Mastery Over All Programming Languages

This course involves substantial programming exercises that give students practical experience with several different programming language paradigms. Topics include: syntax and semantics of programming languages; data types and structures; control flow including blocks, subroutines, and recursion; implementation methods for semantic features; and comparison of several programming languages. (4 credits) *Prerequisite:* CS 222

CS 362 Computer Architecture: The Physiology of Computing Systems — The Physical Structures Reflecting the Underlying Computational Processes

This course investigates the levels and components of computer hardware as they contribute to the functioning of the computer. Topics include: RTL systems and notations, bus structures, arithmetic logic credits, execution and control design, micro-program control, input-output interface, hardware-software interactions, and microprocessors. Students study the integration of these system components in a sample uni-processor system and through case studies of actual machines. (4 credits)

Prerequisite: CS 262

CS 390 Fundamental Programming Practices: Modern Programming Methods and Systems — Capture the Fundamental Principles of Knowledge for Greater Success in All Areas

This course provides a focused program for enhancing programming and analytical skills in five areas: problem-solving, data structures, object-oriented programming, the Java programming language, and the use of recursion in Java programs. These topics are of particular importance as a prerequisite for the courses in the graduate program in Computer Science. Topics include: elements of Java programming, object-oriented design and implementation, data structures (including lists, stacks, queues, binary search trees, hash tables, and sets), the exception hierarchy, file i/o and streams, and JDBC. (4 credits) *Prerequisite:* CS 220

CS 398 Computer Programming Internship: Knowledge and Experience for Maximum Growth

This course offers practical, professional experience in computer programming. Students apply classroom knowledge to an industrial or University project. During the internship, students submit detailed reports of their computer programming activities. (2 credits) *Prerequisites:* consent of the Department faculty and the Academic Standards Committee

Dual Graduate/Undergraduate Courses

CS 401 Modern Programming Practices: Current Concepts and Best Practices in Software Development — Knowledge Is the Basis of Action

This course presents the fundamental principles of object-oriented programming. Students will learn how to write reusable and better-maintained software, and integrate this knowledge with laboratory assignments and projects. Topics include: fundamental principles and models of object-oriented programming, UML class diagrams and design principles that promote reusability and maintainability of software. (2 credits) *Prerequisite:* CS 220 or equivalent

CS 420 Numerical Analysis: Methods to Map Nature's Infinite Precision into Finite Computing Systems

Scientific and engineering computer application requires advanced numerical techniques of manipulating and solving complex systems of equations with great efficiency and minimum error. Topics include: numerical solution of linear equations, curve fitting, interpolation and polynomial equations, numerical integration and differentiation, solution of nonlinear equations, and error analysis. (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 422 Database Systems: Capturing the Organizing Power of Information

Database systems organize and retrieve information, allowing the user to access the desired information easily and efficiently. Topics include: relational data model; SQL; ER modeling; relational algebra; data normalization; transactions; objects in the database; data security and integrity; data warehousing, OLAP, and data mining; distributed databases; and study of a specific commercial database system. (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 423 Systems Analysis and Design

One can think of the systems approach as an organized way of dealing with a problem. The software systems development life cycle (SDLC) has three major phases. It begins with preliminary and feasibility studies to make the decision to develop a system to solve a particular problem in a cost-effective and timely way. This is followed by a detailed system study, in which every aspect of the current system is analyzed and a new system is designed to meet the needs of the organization. Finally, the system design is brought to life through software engineering techniques including coding, testing, implementation and maintenance of the system. This focuses on the middle phase. A system will be studied in detail to gather requirements and its process elements analyzed for suitability and relevance to meet the needs of the system's users. This is followed by an iterative and creative design process, using tools such as flowcharts, data flow diagrams (DFD), data dictionary, decision tables and decision trees, to provide an effective and detailed design of the system. (2–4 credits) *Prerequisite:* CS 401

CS 425 Software Engineering: Knowledge Is the Basis of Action — Principles and Processes for Developing Large-Scale Software Systems

This course introduces the student to best practices in software development through a *software development methodology*. Students will learn how to bring together their skills in object-oriented analysis and design, in the use of UML diagrams for modeling software solutions, to produce robust, easily maintainable software. A software development methodology describes when and how object-oriented concepts and UML diagrams should be used to accomplish the aim of building quality software. The course centers around a small project in which the principles discussed in the lecture format can be illustrated and applied. By the end of the course, the student will have a running application, built in accord with the high standards of a contemporary development methodology. (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 435 Algorithms: Discovering the Hidden Dynamics of Natural Law

This course presents methods for analyzing the efficiency of algorithms (including worst-case and average-case analysis) and introduces a variety of known, highly efficient algorithms. Analysis, design, and implementation of algorithms are given equal

emphasis. Topics include: searching and sorting, efficiency of operations on data structures (including lists, hash tables, balanced binary search trees, priority queues), graph algorithms, combinatorial algorithms, recurrence relations, NP-complete problems, and special topics as time allows. (In the past, special topics have included computational geometry, algorithms for cryptosystems, and approximation algorithms). (4 credits)

Prerequisites: CS 401 and MATH 272, or consent of the Department faculty

CS 440 Compiler Construction: Connecting Name and Form — The Source of All Programming Languages in Grammar and Semantics

Students learn the successive stages and detailed mechanics by which high-level programming languages are translated into machine language by a compiler. Topics include: language and grammar specification, compiler structure, compiler generation tools, lexical analysis, parsing, syntax analysis, semantic analysis, intermediate language, code generation and optimization, storage management and linkages, user interface, and a large programming project implementing part of a compiler. (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 450 Computer Networks: Connecting the Parts and Whole — Frictionless Flow of Information

The goal of this course is to learn the concepts, architecture principles, and terminology of computer networks by exploring how networks work and developing network applications. This course follows the top-down approach to understanding networks by using the Internet's architecture and protocols as the primary example of an implementation of network principles. We start at the application layer and continue through the transport layer, network layer, link layer, and the physical layer of computer networks. Students develop several network applications and complete several labs designed to trace and understand the predominant network protocols in use in the Internet. (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 455 Software Technologies: Advanced Principles of Natural Law in Software Systems

This course will cover the most current emerging methods, principles, and practices in software technologies and systems. The topics will vary, based on current technologies and instructor choices. (2 or 4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 456 Software Testing

Software testing is the process of analyzing software for problems and evaluating the features. In this seminar students will learn the art and science of software testing. The seminar will focus on Functional Testing, Structural Testing, Unit Testing, Integration

Testing, System Testing, and GUI Testing. Students will do tools and frameworks evaluation and a literature survey of the state of the art in software testing. (2–4 credits)

CS 460 Scientific Computing: Software Models and Methods to Represent the Mathematical Precision of Natural Law

This course presents methods and principles for the application of computing systems to scientific and engineering problems. Areas studied in this course are numerical methods, scientific computation, and applications. Specific topics covered are computational efficiency, accuracy and precision, root finding, Taylor series and function evaluation, interpolation and approximation, finite difference calculus, curve fitting, and numerical integration. (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 465 Operating Systems: The Most Fundamental Level of Software — Organizing Hardware Resources into Coherent Virtual Systems

An operating system controls the central resources of the computer system and allocates them to individual users. Course topics include sequential and concurrent processes, mutual exclusion, resource sharing, process cooperation, deadlock, resource allocation, processor scheduling, memory management, segmentation and paging algorithms, timesharing systems, scheduling algorithms, and resource protection. (4 credits)

Prerequisite: CS 401 or consent of the Department faculty

CS 466 Computer Security

This course goes deeply into the three aspects of computer security: confidentiality, integrity, and availability. Several models for confidential and integrity security policies are studied. The role of cryptography in assuring confidentiality and integrity is examined. Other topics include authentication, auditing, penetration testing, common vulnerabilities and intrusion detection. The course concludes with the case study of a realistic secure system. Students will be asked to read papers from the security literature and apply them to material given in the lectures. (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 467 Secure Coding Practices

The course examines the 19 issues that account for 95% of the security vulnerabilities that occur in the field. The issues are: buffer overflows, format string problems, integer range errors, SQL injection, command injection, failure to handle errors, cross-site scripting, failing to protect network traffic, use of “magic” URLs and hidden fields, improper use of SSL, use of weak password-based systems, failing to store and protect data securely, information leakage, improper file access, trusting network address information, race conditions (improper thread programming), unauthenticated key exchange, failing to use cryptographically strong random numbers, and poor usability. The final project of the course will analyze and remove vulnerabilities from a Web

application. The course will emphasize that a computer programmer needs both broad comprehension and the ability to focus to produce secure software. (2 or 4 credits)

Prerequisite: CS 401 or consent of the Department faculty

CS 470 Knowledge-Based Systems: Knowledge is the Basis of Thinking, Action, and Achievement — Creating Intelligent Software Systems

The field of artificial intelligence attempts to create computer programs that reflect the values of human intelligence. Topics include: state-space representations, tree and graph searches, predicate calculus and deduction, heuristics, learning and problem solving, natural language processing, expert systems, and programming languages for artificial intelligence. (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 471 Parallel Programming

The standard processor for all new computers is now a *multi-core* processor, which has the potential to execute programs much more quickly. However, to utilize this potential, a programmer must have some knowledge of *parallel programming* techniques. During this course, students will spend most of their time writing and debugging parallel programs. The expected outcome will be to develop a new level of practical programming skill. This skill will not only be useful for programming of multi-core processors, but also operating systems programming and distributed database programming. The software tools used during this course include Microsoft Visual C/C++, the OpenMP threading standard, and the Message-Passing Interface (MPI) standard. In addition to multi-core processors, this course also covers techniques for programming a computer *cluster* (many individual workstations networked together and working collectively on a single computation) (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 472 Web Programming

In this course, students learn to develop Web 2.0 applications using many newer technologies such as XHTML, CSS, JavaScript, PHP, MySQL, and Ajax. The course features a project-based approach to learning with hands-on exercises requiring programming skills. Students apply design strategies to make scalable websites and access data from other websites and servers. Emphasis will be on programming and solving design issues. (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 475 Computer Graphics: How to Represent and Graphically Express the Dynamic Intelligence Captured in Software Systems

One of the fastest growing areas of computer technology, computer graphics is used extensively to present the vast amount of information resulting from a computing

process. This course studies data representation, display devices and graphics hardware, display lists, device independence, two-dimensional and three-dimensional graphics, display of curves and surfaces, hidden line and hidden surface removal, shading and rotation techniques, graphics languages, and introduction to image processing. (2–4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 476 Image Processing: Visual Expression of Total Knowledge

The course presents the concepts and operations of digital image processing, which treats all images as a collection of binary pixels. The course studies how these billions of parts are treated as a single integrated image, and the mathematical and algorithmic aspects of and tools for processing these images. Topics include: image representation and transformations, filtering, and Fourier domain filtering and transformations, edge detection, segmentation, and other processing operations. The course includes a substantial lab component. (2-4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 485 Theory of Computation: The Abstract Basis of All Possibilities in Computation

Formal abstract models of computation study the fundamental limitations and capabilities of computers. This course presents a hierarchy of increasingly sophisticated abstract machines in relation to their increasing ability to recognize more general classes of formal languages. Topics include: formal grammar, finite-state machines, equivalence of finite-state machines, right-linear and left-linear grammar, context-free languages, Turing machines, unsolvable problems, and recursive functions. (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 487 Distributed Computing and XML

This course will investigate the uses of XML in distributed computation. First an understanding of the W3C specifications for XML, XML Schema, XPath, XML namespaces, XSLT and XQuery will be acquired. Then three important applications of XML in distributed computing will be investigated: syndication, Web services and Ajax. Finally, advanced issues such as encrypted XML and binary XML will be considered. There will be daily labs using .NET 2.0. (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 490 Topics in Computing

This course surveys and studies current technologies and application areas in computing. Typically it will include a substantial research and laboratory component to gain experience with advanced areas of computing and computer science. (2–4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 499 Directed Study: Faculty Directed Study of Specialized Topics

(variable credits) *Prerequisite:* consent of the Department faculty

Graduate Only Courses

CS 501 Advanced Computer Architecture: Structured Intelligence — Computational Structures That Reflect the Dynamics of Computation

This course presents the methods, principles, and metrics of computer systems architecture. The interactions of hardware components, system architecture, and software algorithms are the basis for evaluating the performance and characteristics of a range of advanced computing systems. Topics include: pipelined and multiprocessing architecture, parallel processing, distributed processing, case studies, and comparisons of existing systems. (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 505 Advanced Programming Languages: The Integrated Source of All Programming Languages as a Basis for Understanding and Applying Principles of Programming

This course considers topics in programming language design and definition with emphasis on formal methods and abstraction mechanisms. Topics include: the comparison of different programming paradigms, data and control abstraction, formal specification of syntax and semantics, advanced control structures, and study of specific languages including functional programming. (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 510 Advanced Operating Systems: Extending the Qualities of Integration, Unity, and Efficiency to Both Local and Distributed Operating Systems

The course covers advanced topics in operating systems including analytical models and theory. Topics are selected from the following: models for parallel computation, Petrinets, dataflow diagrams, distributed operating systems, queuing theory, system simulation, performance evaluation, dynamic protection concepts and mechanisms, and fault tolerant systems. (4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 525 Advanced Software Development: The Structures and Patterns of Natural Law in Software That Embody Knowledge of Good Design

This course considers the current methods and practices for good design of software systems. Topics include: software design patterns, frameworks, architectures, and designing systems to apply these multi-level abstractions. (2–4 credits) *Prerequisite:* CS 401 or consent of the Department faculty

CS 526 Software Architecture: The Unifying Principles in Large Software Systems

This course studies the overall structure, relationships, and dynamics of the software components that comprise various levels of a system, so that they form an integrated result that meets the design objectives. Topics include: software components, component models, system specifications and modeling, and architectural patterns. Students will learn the principles, methods, and examples of good software architectures, and apply them in a project or presentation. (4 credits) *Prerequisite*: CS 401 or consent of the Department faculty

CS 530 Topics in Database Systems: Higher-Level Structures in Information Reflecting Greater Knowledge of Natural Law

This course considers advanced issues in database management systems design and implementation. Topics include: database transactions, constraint checking, security, integrity, recovery techniques, schemas and views of data, semantic data models, entity-relationship models, extended relational models, distributed databases, and database machines. (4 credits) *Prerequisite*: CS 422

CS 545 Web Applications — Architecture and Frameworks: Integration of Parts and Wholeness in Large-Scale Distributed Software Systems

This course presents the issues, methods, and techniques for creating multi-computing distributed systems across networked or more tightly coupled interconnect systems. Topics include: communication, protocol, and synchronization; performance; and the architecture of server, client/server, multi-tier, and mobile agent distributed object systems. Software issues of portability, extendibility, and interoperability are also studied. (4 credits) *Prerequisite*: CS 401

CS 547 Distributed Computing Architecture: Integrating Parts and Wholeness in Large-Scale Distributed Software Systems

This course discusses advanced issues and principles pertinent to modern enterprise systems, such as object-oriented middleware technologies, Message-Oriented-Middleware (MOM), distributed architecture, design patterns, and frameworks. (4 credits) *Prerequisite*: CS 545

CS 570 Teaching of Computer Science

Students gain practical experience teaching computer science by serving as full-time teaching assistants in one of the basic undergraduate courses. Assistants conduct laboratory sessions with small groups of students, grade laboratory programs and exercises, and assist students individually. (2 credits — may be repeated for credit) *Prerequisite*: consent of Department faculty

CS 575 Practicum in Software Development (away from Fairfield)

In this practicum course, students perform computer-related tasks in a technical professional position. The tasks performed may be in the design and development of new systems or the application of existing systems for specific purposes. Practicum job descriptions are formulated prior to employment by the employer and the student, and course registration requires approval in advance by the Computer Science department. (variable credits — may be repeated for credit) *Prerequisite:* written authorization

CS 576 Practicum in Computer Operations (in Fairfield)

In this practicum course, students perform computer-related tasks in a technical professional position. The tasks performed may be in the design and development of new systems or the application of existing systems for specific purposes. The job activities must relate to coursework studied during the Master's degree. Practicum job descriptions are formulated by the employer and the student, and require approval in advance by one of the graduate faculty of the department, in consultation with the practicum supervisor where the student is placed. (This course is primarily for students in the internship or cooperative programs.) (variable credits — may be repeated for credit) *Prerequisite:* written authorization

CS 577 Practicum in Administrative Applications of Computers (for on-campus interns)

In this practicum course, students perform computer-related tasks in one of the administrative or academic departments of the University. The tasks performed may be in the design and development of new systems or the application of existing systems for specific purposes, and require approval in advance by one of the graduate faculty of the department, in consultation with the practicum supervisor in the department where the student is placed. (This course is primarily for students in the internship or cooperative programs.) (variable credits — may be repeated for credit) *Prerequisite:* written authorization

CS 580 Seminar in Current Research Topics

Advanced knowledge and current research issues are presented in a specialized area of computer science. The course includes readings of current journal articles in the field and a substantial independent project by students. (4 credits — may be repeated for credit) *Prerequisite:* consent of instructor

CS 581 Seminar in Professional Computing: Advanced Topics in Nature's Computing Processes

This course provides topical knowledge relevant to professional applications of computing. Topics will vary each time it is offered. Topics may include: object-oriented programming, object-oriented analysis and design, client/server models and distributed

systems, real-time programming, real-time systems, software quality assurance and measurement, applied AI and expert systems, and database management tools. (1 credit — may be repeated for credit) *Prerequisite*: consent of Department faculty

CS 585 Integration Project and Comprehensive Examination

This course reviews and integrates knowledge presented in the four graduate core courses: CS 465, CS 485, CS 501, and CS 505. Students write a substantial paper using the dynamics of the Unified Field of Natural Law as an intellectual framework to integrate the concepts presented in the four core courses. The course ends with a comprehensive examination covering the core courses. (4 credits) *Prerequisites*: CS 465, CS 485, CS 501, and CS 505

CS 586 Cooperative Research Project

Students conduct an extended project related to their cooperative practicum project. Students work with their supervisor and the faculty to add a research component to a main technical aspect of their work, and will present a final written report and oral presentation. (4 credits) *Prerequisite*: consent of Department faculty

CS 591 Directed Study in Computer Science

In this course, the student spends six hours per week in the evenings covering material from one of the regular courses, or special material selected by the faculty according to the needs and program of study of the student. In some cases, a faculty member outside the Department of Computer Science supervises the directed study. However, the selection of material to be covered and the final evaluation is subject to the approval of the graduate faculty. (This course is for students in the internship program only.) (1–2 credits — may be repeated for credit) *Prerequisite*: consent of Department faculty

CS 592 Directed Study in Computer Applications

In this course, the student spends six hours per week in the evenings covering material from one of the regular courses, or special material selected by the faculty according to the needs and program of study of the student. In some cases, a faculty member outside the Department of Computer Science supervises the directed study. However, the selection of material to be covered and the final evaluation is subject to the approval of the graduate faculty. (This course is for students in the internship program only.) (1–2 credits — may be repeated for credit) *Prerequisite*: consent of Department faculty

CS 598 Computer Science Internship

This course offers practical, professional experience in computer programming. Students apply classroom knowledge to an industrial or University project. During the internship, students submit detailed reports on their computer programming activities. (2 credits)

Prerequisites: consent of the Department and the Academic Standards Committee, and written authorization

CS 599 Directed Study

(4 credits) *Prerequisite:* consent of the Department faculty

CREATIVE MUSICAL ARTS PROGRAM

FACULTY

- Isabelle Matzkin, M.A., Assistant Professor of Music and Maharishi Vedic Science
- Jane Roman Pitt, Ph.D., Adjunct Assistant Professor of Music
- Kaeli Ferguson, B.A., Instructor of Music
- Ed Sarath, M.A., Visiting Professor of Music
- Donald Sosin, M.A., Adjunct Assistant Professor of Music
- Kevin Thomas, M.M., Adjunct Assistant Professor of Music
- Paul Fauerso, B.M., Adjunct Assistant Professor of Music
- Patricia Saunders, ALCM, Adjunct Instructor of Music

INTRODUCTION

The Creative Musical Arts program at Maharishi University of Management provides a new approach to musical study that enables students to develop a personal, artistic voice, capable of making a positive difference in the world. The specialty of Creative Musical Arts is the development of creativity itself. To this end, this program integrates three central areas: *consciousness*, *creativity*, and *craft*.

Consciousness is essential to all study at Maharishi University of Management, and certainly to music. Musicians have always known that the essential experience of music runs deeper than theoretical analysis or virtuoso performance skills. While important and necessary, those skills are given meaning by something more profound in music — something that touches the silent depths of inner being and awakens the infinite field of consciousness itself. At Maharishi University of Management, students embark on a journey that will take them inward, beyond ordinary ways of thinking, to their innermost Self. It is the access to this profound, inner reservoir of consciousness that enables Maharishi University of Management students to bring harmonious solutions to music, and indeed to all fields of life.

This direct contact with the inner field of pure consciousness, experienced regularly through the practice of Transcendental Meditation, has been shown to directly and systematically develop one's inner creative potential — the very source of creative expression.

Creativity, nurtured in every class, is the specialization of our program. In musical composition and improvisation, the stream of sounds depends directly on the performer's ability to draw upon that deep, resonant potential within consciousness. This holds true for all musical styles. Confident composition and improvisation is a central aspect of creative musical expression, enabling students to collaborate with musicians from diverse stylistic backgrounds, generate ideas for compositions, create music for video and film, and utilize the power of music to make meaningful contributions to their environment. Brilliant composing and improvising ability is also a hallmark of master musicians in all cultures and times. To guide our students in the development of this sublime, quintessential creative skill is vital to our program.

Craft — the third main area of focus in the Creative Musical Arts program — goes hand-in-hand with the development of creativity. Improvisers/composers need systematic, hands-on training in theory, aural skills, instrumental technique, repertoire, performance skills, and other foundational subjects.

At Maharishi University of Management, we offer a unique kind of grounding in these areas in which all skills are connected with each other and to creative application. By approaching all knowledge areas as richly interwoven aspects of a broad musical tapestry, students find that the learning process becomes quite lively, which directly enhances the assimilation of skills.

DEPARTMENTAL REQUIREMENTS

Graduation Requirements for the Minor in Creative Musical Arts

To graduate with a minor in Creative Musical Arts, students must successfully complete the following:

- earn 20 credits of music course work
- meet at least once with a visiting professional musician to discuss their musical growth and future plans
- pass a test at the end of the course work to demonstrate basic music theory knowledge, basic keyboard and ear training skills, and basic creative musicianship.

To graduate with a Creative Musical Arts concentration in the Media and Communications Department at Maharishi University of Management, students must successfully complete the following:

- earn 12 credits of music course work

- meet at least once with a visiting professional musician to discuss their musical growth and future plans
- pass a test at the end of the course work to demonstrate basic music theory knowledge, basic keyboard and ear training skills, and basic creative musicianship.

Courses approved for the minor or concentration include the following:

Regular Block Courses

- MUS 203 Jazz Ensemble
- MUS 205 A New Approach to Music Theory
- MUS 210 Songwriting
- MUS 215 CCTS: Music, Consciousness, and Veda
- MUS 216 Sacred Music, Chants, and Recitations
- MUS 217 CCTS: The Power of Sound
- MUS 220 Music Appreciation
- MUS 221 Developing a Musical Ear
- MUS 223 CCTS: American Roots Music
- MUS 225 Creative Music Technology
- MUS 227 Introduction to Soundtrack Design for Film
- MUS 232 The Musical Evolution of the Beatles
- MUS 240 Basic Harmony and Keyboard Skills
- MUS 399 Directed Study
- MC 330 Radio and Web Broadcasting

Ensembles and Lessons

- MUS 101 Basic Music Instruction
- MUS 201 Intermediate Music Instruction
- MUS 202 Chamber Singers of Southeast Iowa
- MUS 206 Musical Artist Development
- MUS 207 Creative Music Ensemble

COURSES

Music Courses

MUS 203 Jazz Ensemble: Music as the Swing of Unbounded Bliss

This ensemble covers musical terrain that reflects the highly eclectic nature of the jazz idiom. Drawing from influences ranging from Blues, Ragtime, New Orleans Jazz, and Chicago Jazz to Harlem Renaissance, Modal, Avant Garde, and Global Fusion, the group

will exemplify the interplay between grounding in tradition and exploration of new horizons that has been the driving force in this genre since its inception. The class will also consider relevant stylistic/cultural/historical issues, as well as afford students opportunities for original composition and diverse approaches to improvisation. Open to instrumentalists and vocalists alike. Performance opportunities are available. (4 credits — may be repeated for credit) *Prerequisite:* audition

MUS 205 A New Approach to Music Theory: Musicianship Through Creativity and Personal Growth

This is a hands-on introduction to creative musicianship. Students explore the language of pitch and rhythm — not by passively absorbing the rules of music theory, but as active listeners and creators of tone, pulse, and pattern. Our faculty use a well-proven, user-friendly approach to improvisation that enables anyone to create with confidence and joy, including students who have never improvised before. Through listening, composing, and improvising assignments, students develop a profound and practical understanding of pitch, interval, melody, pulse, meter and time-feels, analysis, musical form, and a beginning knowledge of modal/tonal/post-tonal systems. Included are basics of music software, notation, and keyboard technique. (4 credits)

MUS 210 Songwriting: Sharing Our Stories of the Song of Life

We write and sing songs in order to communicate our thoughts and feelings in an artistic and meaningful way. In this class we will hear, sing, discuss, and especially write songs that tell the stories of life and growth as individuals and as societies. Topics include: finding inspiration, capturing a story, matching melody to mood, the art of editing, and more. Guest professional singers and songwriters will share their songs, songwriting methods, and advice for getting students' songs out into the world. The course will culminate in a performance of the songs we have created. (4 credits — may be repeated for credit)

MUS 215 Music, Consciousness, and Veda—The Inner and Outer Dimensions of Sound

In this course, we explore the nature of sound as it relates to human experience. Topics include: frequency, rhythm, pitch, timbre, hearing, speech, light, touch, form, and proportion, in terms of musical expression. We approach these topics from a modern, scientific perspective, as well as from the view of the ancient Vedic tradition, especially Maharishi Gandharva Veda music and the philosophy of Vaisheshika. Aural training is an integral component of the course, and reaches beyond traditional diatonic structures. Students have daily opportunities to explore the various dimensions of sound through creative assignments. (4 credits — may be repeated for credit)

MUS 216 Sacred Music, Chants, and Recitations: Diving Deeply Into the Power of Sound

This course investigates sacred music from a rich diversity of ancient traditions, including Native American, African, Hebrew Chant, Gregorian Chant, Gandharva Veda ragas, Vedic recitation, and others. Students explore new ways of musical self-expression through listening, chanting, creating, performing. There will also be readings and discussions on music as a vehicle for communication, health, community, and spirituality. We locate these universal themes within ourselves through self-knowledge — the experience of our own innermost field of consciousness, accessed directly in our daily Transcendental Meditation program practice. Prior training in music or Sanskrit is welcome but not necessary. (4 credits — may be repeated for credit)

MUS 217 CCTS: The Power of Sound—Ultimate Quest of Both Artist and Scientist

What is sound? How does it work? What gives it meaning; what makes it “musical”? These are some of the fundamental questions explored in this course, from the perspectives of music, science, and the spoken word. We study the properties of sound, explore masterworks in music and poetry, consider the perspectives of great artists and philosophers, examine research studies, and discover our own responses to sound through daily creative assignments. (4 credits) *Prerequisite:* taken during students' first semester, or with consent of the Department faculty

MUS 220 Music Appreciation: Listening for Meaning at the Source of Sound

The goal of this course is not only to develop musical literacy, but also to awaken and inspire the innate musical intelligence of every student. We examine a variety of masterworks in terms of melody, harmony, rhythm, instrumentation, and form; discover connections of western music to its contemporary art, architecture, and historical culture; and learn to identify major musical styles. A brief exploration of music beyond the western classical tradition is included. These listening skills are supported with basic theoretical analysis, keyboard lessons, and creative activities. (variable credits)

MUS 221 Developing a Musical Ear: Gaining the Tools to Express the Finest Levels of Perception

This course is a laboratory for musical exploration and expression, designed to develop basic musicianship, build musical vocabulary, and learn to recognize and play music by ear. In a very hands-on atmosphere that nourishes imaginative expression, we explore pitch, intervals, scales and modes, chord structures, rhythm and time-feels through daily sight singing, notation drills, dictation, keyboard applications, and guided listening of specific musical patterns in a variety of styles. Included are lots of creative projects, both individually and in groups. (4 credits)

MUS 223 CCTS: American Roots Music—From Richly Diverse Heritage to Strong Cultural Unity

This course celebrates the confluence of several distinctly American music traditions: Gospel, Blues, Appalachian Folk, Bluegrass, and Native American. Our goal is to develop a deep understanding and appreciation for the inner workings of the artistic, cultural, historical, and spiritual underpinnings that have shaped so much of today's music. Listening, playing, and singing songs are a daily part of this exploratory journey, as are research, writing, and discussion. (4 credits) *Prerequisite:* STC 108, taken during students' first semester, or with consent of the Department faculty

MUS 225 Creative Music Technology: Capturing Creativity Through Technology

This is an introduction to modern computer-based music composition, audio and MIDI recording, editing, mixing, and production, utilizing industry-standard software. The goal of the course is an overview of the basic skills necessary to initially capture, then organize, and finally polish the music that each student will create. More in-depth skills and techniques are offered to students who demonstrate readiness to go beyond the basics (4 credits — may be repeated for credit) *Prerequisite:* a music fundamentals course such as MUS 221 or MUS 240, or consent of the instructor

MUS 227 Introduction to Soundtrack Design for Film: The Art of Integrating Sound and Form

This course explores the relationship of sound and the moving image. We study examples by great film composers and start working with different approaches of using music to enhance a film scene, finding and purchasing music from sound databases, and collaborating with film composers. Included is a hands-on component where students create their own soundtrack for a short film or video clip. (4 credits — may be repeated for credit) *Prerequisite:* a music fundamentals course such as MUS 205, 220, 221, or 240, or consent of the instructor

MUS 232 The Musical Evolution of the Beatles: Boundless Creativity in Action

In this course, we will explore the music of one of the most influential musical groups of the 20th Century. The rich musicianship and boundary-breaking creativity of The Beatles songs will be studied through creative projects, an introduction to analytical listening, cultural/historical readings and presentations, research and writing. Guest speakers will share their personal and professional perspectives. (4 credits — may be repeated for credit) *Prerequisite:* a music fundamentals course such as MUS 220, MUS 221, or MUS 240, or basic knowledge of music theory with instructor's consent.

MUS 240 Basic Harmony and Keyboard Skills: Gaining the Keys to Musical Knowledge from Inside and Outside

This course covers fundamentals of keyboard application for beginning musicians, as well as for intuitive composers and performers who wish to demystify music theory through basic piano skills. Topics include: reading treble and bass clef, fingering techniques, posture and hand coordination, pedaling, common rhythm patterns, scales, chord progressions and arpeggios in common keys. All this is set within a supportive environment where lessons come alive through creative assignments and group improvisations. (Variable credits — may be repeated for credit)

MUS 399 Directed Study

This course is for self-directed, disciplined students who are unable to take the regular course due to extraordinary circumstances. (variable credits) *Prerequisite:* consent of the Creative Musical Arts faculty

Semester-Long Music Ensembles

MUS 202 Chamber Singers of Southeast Iowa: Creating Harmony of Individuality Within a Larger Wholeness

For students with choral experience or singing experience who can read music. This group performs two concerts annually and affords an opportunity to further develop musicianship skills, listening skills, vocal technique, and professionalism in an advanced choral ensemble. Students will have exposure to a varied repertoire and a cappella literature. Opportunities for solo and small ensemble work are available. Students will develop confidence and a deeper connection to the self as they appreciate their role in the context of a larger musical wholeness. This ensemble meets weekly with occasional extra rehearsals during the semester and preceding concerts. (1 credit — may be repeated for credit) *Prerequisite:* audition is required

MUS 207 Creative Music Ensemble: Accessing the Creative Flow

The goal of this group is to develop our personal musical voice. Musicians from all backgrounds and genres are welcome. We play and study masterworks of diverse styles, and also practice creative techniques using a very “user-friendly,” trans-stylistic method that easily elicits the creative flow. This allows today’s musician to access the invaluable expressive skill of improvisation, which exists at the root of all of the world’s music traditions. The only prerequisite is an open mind toward one's own latent abilities to be creative. (variable credits — may be repeated for credit)

Semester-Long Music Lessons

MUS 101 Basic Music Instruction: Music is an Experience of Bliss

The goal of music lessons is the experience that music is ultimately and fundamentally an experience of bliss. In the words of Maharishi Mahesh Yogi: "Music originates where unity starts to swing in the bliss of its own unbounded existence." This semester-based course in instrumental or vocal instruction is for students who are committed to practicing a minimum of 30 minutes per day. This course generally includes 12 lessons, although instructors may vary this structure as needed. Audition may be required. (0.5 credit — may be repeated for credit) Fees vary according to the instructor

MUS 201 Intermediate Music Instruction: Music is an Experience of Bliss

The goal of music lessons is the experience that music is ultimately and fundamentally an experience of bliss. In the words of Maharishi Mahesh Yogi: "Music originates where unity starts to swing in the bliss of its own unbounded existence." This semester-based course in instrumental or vocal instruction is for students, who are committed to practicing a minimum of 1-2 hours per day. This course generally includes 12 lessons, although instructors may vary this structure as needed. Audition may be required. (1 credit — may be repeated for credit) Fees vary according to the instructor; some scholarship may be available

MUS 206 Musical Artist Development: Developing More Refined Levels of Expression Through Musicianship, Singing, Songwriting & Performance

This course is meant to help students access deeper levels of creativity from within and apply it to their musical art/craft. It is for serious students who want to progress by taking a holistic approach. We will focus on improving vocals, enhancing levels of songwriting, performance, and musical self-accompaniment. The goal is to help each student become a better artist by developing an understanding of who that "artist" is, exploring aspects of his or her unique vision, and creating self-realization through self-expression. The course also will include live performances, recorded to gauge ongoing success and introduce the concept of self-video recording. (variable credits — may be repeated for credit)

DEPARTMENT OF DEVELOPMENT OF CONSCIOUSNESS

FACULTY

- Rod Eason, Ph.D., Chair, Assistant Professor of Maharishi Vedic Science
- Kristine Wood, B.S., Director
- Paul Handelman, M.B.A., Director
- Ron Pleasant, M.B.A., Adjunct Faculty
- Kristiane Noergaard, M.A., Adjunct Faculty
- Michael Farrer, M.A., Adjunct Faculty; Residence Course Coordinator
- Wendy Sanchez, Ph.D., Liaison for Development of Consciousness for Asian Students

ADVISORY BOARD

- Craig Pearson, Ph.D., Executive Vice-President; Associate Professor of Professional Writing
- Catherine Gorini, Ph.D., Dean of Faculty; Professor of Mathematics
- Fred Travis, Ph.D., Dean of the Graduate School; Chair, Department of Maharishi Vedic Science
- Christopher Jones, Ed.D., Dean of Teaching and Learning; Professor of Education
- Ellen Jones, J.D., Dean of Student Life; Associate Professor of Law and Government
- John Collins, B.Sc., Instructor of Sustainable Living
- Jan Sickler, M.A., Associate Dean of Students
- James Hodgson, B.A., Admissions Counselor; graduate student

INTRODUCTION

Maharishi University of Management is the leader in consciousness-based education. This approach to learning has its foundation in the development of consciousness, the core technology of which is the twice-daily practice of the Transcendental Meditation technique, founded by Maharishi Mahesh Yogi. This simple, natural, effortless procedure strengthens communication between the brain's prefrontal cortex and different areas of the brain, and develops total brain functioning. More than four decades of research shows the TM technique develops the full potential of the student by increasing IQ and improving academic performance, while decreasing stress, anxiety and depression. The result is a healthy, creative and peaceful individual – the basic unit of a healthy, creative and peaceful community, nation and world.

Because of these many benefits and the positive impact they have on education, practicing the Transcendental Meditation technique is an important and required part of the curriculum and daily life at Maharishi University of Management. Students are automatically enrolled in a Development of Consciousness course for every semester they are taking classes on campus. Many students also learn the advanced TM-Sidhi program, including Yogic Flying, and practice this as part of their DC course. Each element of the course (see special features below) has been carefully structured to produce maximum benefit. Academic credit is given for successful completion of the DC course and students are required to receive a passing grade for each semester they are enrolled. This credit goes towards fulfilling graduation requirements.

SPECIAL FEATURES

- Focus on an ideal daily routine with regular twice-daily practice of the Transcendental Meditation and TM-Sidhi programs.
- Group practice of the TM technique in the classroom and in the Meditation Halls.
- Group practice of the TM and TM-Sidhi programs in Golden Domes of Pure Knowledge.
- Residence Courses for meditators — including specially structured extra meditation, videotapes of Maharishi, and discussion of experiences of the growth of consciousness.
- World Peace Assemblies for sidhas — including large group program in the Golden Domes.
- All-Campus development of consciousness meetings held once a semester to give students the opportunity to discuss the development of consciousness and their experience of the growing integration of life that is the goal of this program.
- Personal checking with a certified teacher of the Transcendental Meditation technique helps ensure that all questions are answered and that students continue to enjoy their meditation, blissfully and effortlessly, throughout the year.

DEPARTMENTAL REQUIREMENTS

Requirements for the Minor in Development of Consciousness

To graduate with a minor in Development of Consciousness, students must successfully complete 20 credits of Forest Academy and the Development of Consciousness course.

Requirements for Development of Consciousness for Undergraduate Students

- MVS 100 Instruction in the *Transcendental Meditation* technique. (This course is waived for those who have learned the TM technique before coming to the University.)
 - DC 320 The *Transcendental Meditation* Program (1 credit for each semester)
- or
- DC 332 The *Transcendental Meditation* and *TM-Sidhi* Programs, including *Yogic Flying* (2 credits for each semester)

Requirements for Development of Consciousness for Graduate Students

- MVS 100 Instruction in the *Transcendental Meditation* technique (This course is waived for those who have learned the TM technique before coming to the University.)
 - DC 520 The *Transcendental Meditation* Program (1 credit for each semester)
- or
- DC 535 The *Transcendental Meditation* and *TM-Sidhi* Programs, including *Yogic Flying* (2 credits for each semester)

C O U R S E S

The successful completion of the Development of Consciousness course fulfills a primary goal of the University — development of the full creative potential of every student. The Development of Consciousness Department and the Registrar provide specific grading policies for these courses. Exceptions to the DC grading policies are considered case by case by the DC Course Office, the DC Advisory Board, or the Academic Standards Committee.

Undergraduate Courses

DC 320 The *Transcendental Meditation* Program: Developing Higher States of Consciousness through Regular Alternation of Deep Rest and Dynamic Activity

All undergraduate students who practice the Transcendental Meditation technique but have not completed the TM-Sidhi course are automatically enrolled in this course every block they are enrolled at the University. Participation is required. (1 credit per semester)

DC 332 *The Transcendental Meditation and TM-Sidhi Programs, including Yogic Flying: Learning to Think and Act from the Level of Transcendental Consciousness*

All undergraduate students who have completed the TM-Sidhi course are automatically enrolled in this course every block they are enrolled at the University. Attendance is required. (2 credits per semester)

Graduate Courses

DC 520 *The Transcendental Meditation Program: Developing Higher States of Consciousness through Regular Alternation of Deep Rest and Dynamic Activity*

All graduate students who practice the Transcendental Meditation technique but have not completed the TM-Sidhi course are automatically enrolled in this course every block they are enrolled at the University. Participation is required. (1 credit per semester)

DC 535 *Transcendental Meditation and TM-Sidhi Programs, including Yogic Flying: Learning to Think and Act from the Level of Transcendental Consciousness*

All graduate students who have completed the TM-Sidhi course are automatically enrolled in this course every block they are enrolled at the University. Attendance is required. (2 credits per semester)

DEPARTMENT OF EDUCATION

FACULTY

- Christopher Jones, Ed.D., Professor of Education, Dean of Teaching and Learning
- Paula Armstrong, M.A., Chair, Assistant Professor of Education
- Fred Travis, Ph.D., Professor of Maharishi Vedic Science, Dean of the Graduate School
- Sanford Nidich, Ed.D., Professor of Physiology and Health, and Education
- Ken Daley, M.Ed., Associate Professor of Education, and Exercise and Sport Science
- Susan Dillbeck, Ph.D., International Professor of Education
- Antoinette Alazraki, M.A., Adjunct Instructor of Education
- Patricia Hancock, M.A., Adjunct Instructor of Education

INTRODUCTION

The Department of Education is designed to provide students with the knowledge, skills and abilities they need to teach anything to anyone. Students learn curriculum planning, instructional strategies, and assessment techniques appropriate to public and private schools. Even those interested in corporate training, nontraditional education, or parenting will find many useful ideas and strategies in the courses of the education program. Most important of all, students in the program grow spontaneously in the qualities of great teachers — confidence, creativity, intelligence, resourcefulness, vitality, efficiency, and kindness — as they pursue their degree. Only in this program can one become an expert in Consciousness-Based education, an approach to teaching and learning that awakens students' total brain potential. Teachers in training learn to cultivate this precious human resource, and they also begin to see how, through the cultivation of this resource, a better world can be created.

The teacher education programs are approved by the Iowa Department of Education. Graduates of these programs may be recommended for licensure in public or private schools in Iowa, and through this license gain access to teaching careers in most of the 50 states.

PROGRAMS OFFERED

- **Minor in Educational Foundations** (18 credits of coursework). A minor in Educational Foundations allows students with an interest in education to develop an understanding of current educational innovations as well as child development, curriculum design and assessment.

- **B.A. in Education: Educational Foundations** (two semesters of full-time study). A major in education with a concentration in educational foundations develops an understanding of the fundamentals of education, with an emphasis on innovative curriculum, instruction, assessment and school reform. This major can be combined with any other undergraduate major for a double major, and is the first year of study for the B.A. in education with a concentration in elementary or secondary education.
- **B.A. in Education: Elementary Education** (three semesters of full-time study for single subject specialists and four semesters for the K–6 self-contained classroom). A major in education with a concentration in elementary education prepares students to teach in a self-contained elementary school classroom or to specialize in one subject area. Structured into the programs are systematically guided experiences of observing, analyzing, assisting, and practicing teaching in elementary school classrooms. The elementary education programs are approved by the Iowa Department of Education. Graduates of these programs may be recommended for licensure in public or private schools in Iowa, as well as in most of the 50 states. The subject areas in which elementary specialists may be prepared for initial licensure are: art, language arts, mathematics, and science. We also offer additional endorsements to licensed teachers in all of the above subjects.

Elementary education programs will be discontinued in 2015. Students who wish to concentrate in elementary education must finish their general education degree requirements in 2012-13 in order to complete the two-year elementary education program by 2015.

- **B.A. in Education: Secondary Education** (three semesters of full-time study). This program prepares students for careers as teachers of single subjects in the secondary school. Students who wish to teach at the secondary level must complete a major in the subject they wish to teach as well as a major in secondary education. Teaching tracks are available within the art, English, mathematics, physiology and health, sustainable living, and business majors and require from 40 to 60 credits of course work, which may be different than the number of credits required for other tracks in the same major. Subjects for which our teacher education program prepares students for initial licensure are: art, English, mathematics, biology, chemistry, and physics. We also offer additional endorsements to licensed teachers in all of the above, plus general science.

The secondary education program is approved by the Iowa Department of Education. Graduates of this program may be licensed to teach in public or private schools in Iowa and be eligible for teaching credentials most of the 50 states.

- **M.A. in Education: Elementary or Secondary Education** (four semesters of full-time study for elementary school teachers and three semesters of full-time study for

secondary school teachers). The M.A. in Education with a specialization in elementary or secondary education prepares students for careers as elementary or secondary school teachers with a strong foundation in school improvement and educational innovation. The first two semesters focus on educational innovations in the realm of teaching and learning, and on school-wide reforms oriented toward boosting achievement and intellectual performance. Candidates for elementary licensure complete two additional semesters that focus on teaching methods for elementary school subjects and student teaching in an elementary school. Candidates for secondary licensure complete an additional semester of student teaching at the secondary level. Both elementary and secondary education programs meet requirements for licensure to teach in Iowa schools. The elementary education track of the M.A. in Education will be discontinued in 2015.

- **M.A. in Education: Secondary Education Fast Track** (two semesters of full-time study before a one-year paid internship, plus 2 credits after the internship). This program is specially designed for working adults who wish to change careers to become secondary teachers. Candidates in the program begin teaching with an intern's license in an Iowa school after only two semesters of coursework. After completing a one-year paid internship and a capstone course they can receive an initial Iowa license, at which point they may seek employment in other states or countries. Applicants are required to have an undergraduate degree in their field of licensure and at least three years of work experience in that field before applying.

- **M.A. in Education: Consciousness-based Educator** (three semesters of full-time study)

This program prepares students for careers as teachers of the Transcendental Meditation program in innovative schools, and includes Transcendental Meditation Teacher Training. The first two semesters focus on teaching and learning, with a secondary focus on school-wide reforms. The third semester is the Transcendental Meditation Training course. The program can be combined with one of the licensure programs to lead to both a teaching license and authorization to teach Transcendental Meditation. The TM Teacher Training course is offered by a separate affiliate of the University and has its own costs and admissions process.

- **M.A. in Education: Educational Innovation** (two semesters of full-time study)

This program prepares students to understand contemporary school change in North America and to work within schools to design systems of continuous improvement. This option is for individuals who already have licenses or who do not wish to become licensed to teach in public schools. It includes all of the core courses in education plus greater depth of exposure to innovation in schools and the opportunity to write a capstone paper to explore in depth a design or a strategy for school improvement.

SPECIAL FEATURES

- **New knowledge:** In the Maharishi University of Management education department, with our Consciousness-Based approach, students gain a holistic understanding of human potential and learn how to teach so that they nourish the whole student. This holistic approach is needed in order to deal with the problems of low academic achievement and antisocial behavior that afflict our schools today. In addition, in each class, students learn how the main concepts of their discipline are connected to the discipline as a whole and how the whole of the discipline is connected to the deepest levels of the student. Students are prepared in an approach to teaching which combines the Consciousness-Based approach with the best evidence-based practice from contemporary teaching and curriculum development, and become familiar with the full range of innovations in today's schools.
- **Stimulating and supportive classroom environment:** Classes in the education department are taught in an active, seminar-style format that promotes full intellectual engagement. Students get individualized attention from faculty who spend on average 30% more time with students than at other institutions. In accord with the University's emphasis on holistic development, classes are also structured to be friendly and supportive, so that students grow continuously in health, happiness, creativity, and self-confidence.
- **Excellent field experience program:** The education department has an extensive field experience component that places students in the classroom from their first days in the program. Elementary education students have about 170 hours of classroom experience prior to student teaching, and secondary education students have about 60 hours. Experience is gained both in the area's excellent public schools and in the University's K–12 laboratory school. This highly successful school serves as a model of Consciousness-Based education for other schools around the world.
- **Personal growth:** Teaching is a giving profession, and one can only give what one has. Ralph Waldo Emerson once said of teaching that it “involves at once, immense claims on the time, the thought, on the life of the teacher . . . and only to think of it implies character and profoundness.” Maharishi University of Management offers an education program that develops students as whole human beings so that every day they have more to give to their students. As a result of this growth, education students at the University become not only better educators, but also better parents, better spouses, better friends. Using a Consciousness-Based approach as well as best practices in contemporary education, students develop their own potential as a teacher while awakening their students' creativity and intelligence.

DEPARTMENTAL REQUIREMENTS

Entrance Requirements for Bachelor of Arts in Education degrees

To be accepted into the major in education, students must be in their third year of college study. Students may take up to 18 credits of coursework (the minor requirement) in education before being formally admitted, though it is recommended that students go through the admissions process as soon as possible.

- **General Education Requirements:** completed course work in the humanities, mathematics, biological or physical sciences, and the social or behavioral sciences. Successful completion of Composition 2 or its equivalent is required for all education courses.
- **Personal Maturity:** a written or phone recommendation from a University faculty member who knows the student well. In addition, applicants submit a brief statement of purpose. A personal interview with a member of the faculty of the Department of Education may be requested.
- **General Academic Ability:** an official record of previous undergraduate work showing a grade point average of 2.5 or better. Candidates are expected to have a 3.0 average or better in their subject field.
- **Performance in Education Courses:** a GPA of 3.0 or better in education courses taken.
- **Candidates for elementary or secondary licensure** must obtain a passing score on the PRAXIS I® test of basic skills, administered by the Educational Testing Service, before the third semester of the program. A minimum score of 168 on each test and an average of 170 is required.
- **International applicants** for the elementary or secondary licensure program are required to have the equivalent of a TOEFL score of 600 or higher on a standardized test of the English language.

The Department may choose to admit provisionally a student who shows particular promise as a teacher, yet who does not meet all of the above criteria. In this case, a plan will be developed with the student by which the deficiency can be monitored and remedied. Undergraduate students who do not maintain a “B” average may still complete a minor in education, but they will not be recommended for graduate level work. For graduate students, a “B” average in all required course work in the Department is necessary to qualify for a Master’s degree in Educational Innovation.

Additional Requirements for Secondary Education

Students who wish to teach at the secondary level must complete a major in the subject they would like to teach as well as the major in education. Teaching majors at the University require 40 to 60 credits of course work. Specific information regarding the requirements for a teaching major may be obtained from the Education Department office.

The University's education program prepares students for initial licensure in the following subjects: art, biology (environmental science), chemistry, physics, business, English, and mathematics. We also offer additional endorsements to licensed teachers in all of the above subjects plus basic science at the elementary level and general science at the secondary level. Additional endorsements require 15 to 24 credits of course work in the area of specialization.

Both the elementary and secondary licensure programs are approved by the Bureau of Practitioner Preparation and Licensure of the Iowa Department of Education and successful completion of these programs prepares one to gain an Iowa teaching license in one's chosen field.

Students who wish to major in elementary education must finish their general degree requirements in 2012-13 so they can start the two-year B.A. in elementary education in 2013. The B.A. in elementary education will be discontinued after May, 2015.

Graduation Requirements for the Minor in Educational Foundations

To complete a minor in Educational Foundations, students must complete the following courses for a total of 18 credits of coursework.

- ED 400 Theory and Practice of Consciousness-Based Education (2 credits)
- ED 407 Stability and Change in American Education (4 credits)
- ED 420 Neurophysiology of Learning and Development (4 credits)
- ED 435 Educational Assessment and Evaluation (4 credits)
- ED 460 Consciousness-based Curriculum Design (4 credits)

Graduation Requirements for the B.A. in Education: Educational Foundations

To graduate with a B.A. in Education with a concentration in Educational Foundations students must complete the general requirements for the Bachelor's degree. (Please refer to "Bachelors' Degree Requirements" in "Academic Policies.") The requirement for the B.A. in Educational Foundations is 30 credits of education coursework as follows:

- ED 400 Theory and Practice of Consciousness-Based Education (2 credits)

- ED 407 Stability and Change in American Education (4 credits)
- ED 420 Neurophysiology of Learning and Development (4 credits)
- ED 426 Teaching with Learner Differences in Mind (4 credits)
- ED 430 Technology in the Service of Learning (2 credits)
- ED 435 Educational Assessment and Evaluation (4 credits)
- ED 460 Consciousness-Based Curriculum Design (4 credits)
- ED 470 Mastering Classroom Management (2 credits)
- ED 496 Capstone in Educational Foundations (4 credits)

Graduation Requirements for the B.A. in Education: Elementary Education

To graduate with a B.A. degree in Education with a concentration in elementary education, students must complete the general requirements for a bachelor's degree. (Please refer to "Degree Requirements" in "Academic Policies.") Students must also complete 12 credits of coursework in a licensure area such as literature, mathematics, science, or social science. The requirement for the major is 66 credits of coursework as follows:

Courses in Educational Foundations (26 credits):

- ED 400 Theory and Practice of Consciousness-Based Education (2 credits)
- ED 407 Stability and Change in American Education (4 credits)
- ED 420 Neurophysiology of Learning and Development (4 credits)
- ED 430 Technology in the Service of Learning (2 credits)
- ED 435 Educational Assessment and Evaluation (4 credits)
- ED 460 Consciousness-Based Curriculum Design (4 credits)
- ED 470 Mastering Classroom Management (2 credits)
- ED 495 Teaching with Learner Differences in Mind (4 credits)

Courses in Elementary School Teacher (K-6 classroom) (40 credits):

- ED 333 Literature for Children (2 credits)
- ED 368 Social Studies and the Elementary Curriculum (4 credits)
- ED 369 Teaching Elementary Mathematics (4 credits)
- ED 370 Teaching Elementary Science (4 credits)
- ED 371 Methods of Teaching Elementary Reading and Language Arts (4 credits)
- ED 372 Elementary Art Methods (2 credits)
- ED 373 Elementary Music Methods (2 credits)
- ED 494 Student Teaching in the Elementary School (16 credits)*
- ED 497 The Teacher Work Sample (2 credits)

*Some students may be required to complete an additional 10 credits.

Additional Requirements for Students Graduating after May, 2015

If a student's date of graduation will be after May, 2015, 32 credits of coursework in science, mathematics, literacy and social science will be required in order to meet Iowa requirements for elementary licensure. The courses below will meet those requirements:

Literacy

- WTG 192 College Composition 2
- MGT 201 Business Communication Skills

Mathematics

- MATH 152 Elementary Algebra or Math 153 Intermediate Algebra
- MATH 266 Geometry for the Artist

Social Science

- HUM 231 Great Civilizations
- MGT 220 Current Topics in Sustainable Economics
- An elective in history, geography or political science

Science

- PHYS 110 Physics
- SL—G140 Earth Systems or SL—G201 Ecology

Teaching Methods

- ED 376: Methods of Teaching Elementary Health and Physical Education

Graduation Requirements for the B.A. in Education: Secondary Education

To graduate with a B.A. degree in Education with a concentration in secondary education, students must complete the general requirements for a bachelor's degree. (Please refer to "Degree Requirements" in "Academic Policies.") The requirement for the major is 48 credits of coursework as follows:

Courses in Educational Foundations (26 credits):

- ED 400 Theory and Practice of Consciousness-Based Education (2 credits)
- ED 407 Stability and Change in American Education (4 credits)
- ED 420 Neurophysiology of Learning and Development (4 credits)
- ED 430 Technology in the Service of Learning (2 credits)
- ED 435 Educational Assessment and Evaluation (4 credits)
- ED 460 Consciousness-Based Curriculum Design (4 credits)
- ED 470 Mastering Classroom Management (2 credits)
- ED 495 Teaching with Learner Differences in Mind (4 credits)

Courses in Secondary Education (22 credits)

- ED 480 Methods of Teaching in Secondary School (4 credits)
- ED 490 Student Teaching in Secondary School (16 credits)*
- ED 497 The Teacher Work Sample (2 credits)

*Some students may be required to complete an additional 10 credits.

Entrance Requirements for M.A. in Education Degrees

To be accepted to the M.A. in Education, students are expected to meet the following criteria:

1. Applicants must have a liberal arts background, including course work in the humanities, mathematics, biological or physical sciences, and social or behavioral sciences.
2. Applicants are expected to have attained an overall GPA of 3.0 on a four-point scale in their undergraduate coursework.
3. All secondary education candidates will have to meet the course work requirements in their field of specialization, as determined by the Maharishi University of Management Department of Education together with the State of Iowa. (Candidates for the mathematics high school teaching license, for example, will have to have taken course work in linear algebra or in abstract algebra, postcalculus geometry, calculus, computer programming, probability and statistics, and discrete mathematics.) For course work requirements in all fields, please consult the MUM Department of Education directly at 641-472-7000, ext. 5021.
4. Applicants must show personal maturity, motivation, stable judgment and commitment to one's growth as an educator through personal and professional recommendations, references, a written statement of purpose and a twenty minute interview.
5. Candidates for elementary or secondary licensure must obtain a passing score on the PRAXIS I® test of basic skills, administered by the Educational Testing Service, before the third semester of the program. A minimum score of 168 on each test and an average of 170 is required.
6. International applicants for licensure programs are required to have the equivalent of a TOEFL score of 600 or higher on a standardized test of the English language. Applicants for non-licensure programs are expected to have excellent communication skills in English as demonstrated either by five or more years of instruction entirely in English or the equivalent of a TOEFL score of 600 or higher. All applicants must pass an English interview by phone, whether or not they have been instructed in English.
7. Students who wish to be accepted into the Fast-Track Secondary Education

Program must have at least three years of prior work experience in a field related to their teaching area, and must successfully complete an in-depth interview by the faculty of the Department.

Students are required to maintain a “B” average to remain in good standing in the program.

Additional Requirements for Secondary Education

Students who wish to specialize in teaching a specific subject at the secondary level must have completed an undergraduate major in the subject which they would like to teach. The University’s education program prepares students for initial licensure in the following subjects: art, biology (sustainable living), chemistry, physics, business, English, and mathematics.

Graduation Requirements for the M.A. in Education: Educational Innovation

To graduate with an M.A. degree in Education with a specialization in educational innovation, students must complete the general requirements for a master’s degree. (Please refer to “Requirements for a Master’s Degree” in “Academic Policies.”) Program requirements are completion of 32 credits of the following course work:

- ED 507 Stability and Change in American Education (4 credits)
- ED 509 Consciousness-Based Curriculum Design (4 credits)
- ED 510 Theory and Practice of Consciousness-Based Education (2 credits)
- ED 511 Educational Assessment and Evaluation (4 credits)
- ED 520 Neurophysiology of Learning and Development (4 credits)
- ED 522 Building Community (or other Forest Academy) (2 credits)
- ED 549 Mastering Classroom Management (2 credits)
- ED 593 Capstone Project (8 credits)
- ED 647 Technology in the Service of Learning (2 credits)

Graduation Requirements for the M.A. in Education: Consciousness-Based Educator

To graduate with an M.A. degree in Education with a specialization in Consciousness-Based Education, students must complete the general requirements for a master’s degree. (Please refer to “Requirements for a Master’s Degree” in “Academic Policies.”) Program requirements are completion of 32 credits of coursework plus the Transcendental Meditation Teacher Training course.

- ED 507 Stability and Change in American Education (4 credits)

- ED 509 Consciousness-Based Curriculum Design (4 credits)
- ED 510 Theory and Practice of Consciousness-Based Education (2 credits)
- ED 511 Educational Assessment and Evaluation (4 credits)
- ED 520 Neurophysiology of Learning and Development (4 credits)
- ED 522 Building Community (or other Forest Academy) (2 credits)
- ED 549 Mastering Classroom Management (2 credits)
- ED 593 Capstone Project (8 credits)
- ED 647 Technology in the Service of Learning (2 credits)
- MVS 490 Transcendental Meditation Teacher Training (8 credits)

Graduation Requirements for the M.A. in Education: Elementary Education

To graduate with an M.A. degree in Education with a specialization in elementary education, students must complete the general requirements for a master's degree. (Please refer to "Requirements for a Master's Degree" in "Academic Policies.") Students must also have completed a concentration of 12 credits of course work at the undergraduate or graduate level in a licensure area such as mathematics, science, or social science. The last entering class for the elementary education track of the M.A. in Educational Innovation will be in the 2012-13 academic year.

Program requirements are completion of 68 credits of the following course work:

Courses in Educational Innovation (28 credits)

- ED 507 Stability and Change in American Education (4 credits)
- ED 509 Consciousness-Based Curriculum Design (4 credits)
- ED 510 Theory and Practice of Consciousness-Based Education (2 credits)
- ED 511 Educational Assessment and Evaluation (4 credits)
- ED 520 Neurophysiology of Learning and Development (4 credits)
- ED 522 Building Community (or other Forest Academy) (2 credits)
- ED 526 Teaching with Learner Differences in Mind (4 credits)
- ED 549 Mastering Classroom Management (2 credits)
- ED 647 Technology in the Service of Learning (2 credits)

Courses in Elementary Education (40 credits)

- ED 533 Literature for Children (2 credits)
- ED 554 Teaching Elementary Mathematics (4 credits)
- ED 560 Teaching Elementary Science (4 credits)
- ED 571 Methods of Teaching Elementary Reading and Language Arts (4 credits)
- ED 573 Social Studies and the Elementary Curriculum (4 credits)
- ED 574 Teaching Elementary Art (2 credits)

- ED 575 Teaching Elementary Music (2 credits)
- ED 568 Student Teaching in the Elementary School (16 credits)*
- ED 585 The Teacher Work Sample (2 credits)

*Students may be asked to take up to 10 additional credits at the discretion of the supervising faculty for student teaching.

Graduation Requirements for the M.A. in Education: Secondary Education

To graduate with an M.A. degree in Education with a specialization in secondary education, students must complete the general requirements for a master's degree. (Please refer to "Requirements for a Master's Degree" in "Academic Policies.") Program requirements are completion of 50 credits of the following course work:

Courses in Educational Innovation (28 credits)

- ED 507 Stability and Change in American Education (4 credits)
- ED 509 Consciousness-Based Curriculum and Evaluation Design (4 credits)
- ED 510 Theory and Practice of Consciousness-Based Education (2 credits)
- ED 511 Educational Assessment and Evaluation (4 credits)
- ED 520 Neurophysiology of Learning and Development (4 credits)
- ED 522 Building Community (or other Forest Academy) (2 credits)
- ED 526 Teaching with Learner Differences in Mind (4 credits)
- ED 549 Mastering Classroom Management (2 credits)
- ED 647 Technology in the Service of Learning (2 credits)

Courses in Secondary Education (22 credits)

- ED 556 Methods of Teaching in the Secondary School (4 credits)
- ED 569 Student Teaching in the Secondary School (16 credits)*
- ED 585 The Teacher Work Sample (2 credits)

*Students may be asked to take up to 10 additional credits at the discretion of the supervising faculty for student teaching.

Graduation Requirements for the M.A. in Education: Secondary Education, Fast-Track

The Secondary Education Fast-Track program offers students with at least three years of prior work experience in their licensure field rapid entry into the job market. After their foundations and methods courses, students in the Fast-Track program complete a year-long paid internship in an Iowa school instead of student teaching. (Please refer to "Requirements for a Master's Degree" in "Academic Policies.") Program requirements are completion of 34 credits of the following coursework:

Courses in Educational Innovation (28 credits)

- ED 507 Stability and Change in American Education (4 credits)
- ED 509 Consciousness-Based Curriculum Design (4 credits)
- ED 510 Theory and Practice of Consciousness-Based Education (2 credits)
- ED 511 Educational Assessment and Evaluation (4 credits)
- ED 520 Neurophysiology of Learning and Development (4 credits)
- ED 522 Building Community (or other Forest Academy) (2 credits)
- ED 526 Teaching with Learner Differences in Mind (4 credits)
- ED 549 Mastering Classroom Management (2 credits)
- ED 647 Technology in the Service of Learning (2 credits)

Intern Teaching

Students accepted into the Secondary Education Fast-Track Program are responsible to find, with the assistance of the Department, an Iowa middle or high school willing to hire them as an intern. They then complete a one-year full-pay teaching internship with mentoring from school faculty in their school and from the Education Department. The following courses are taken during (ED 594) and after (ED 580) the internship:

- ED 594 Intern Teaching Seminar (4 credits)
- ED 580 Foundations of Professional Success (2 credits)

C O U R S E S

Undergraduate Courses

ED 101 *The Transcendental Meditation Program: Developing the Total Potential of the Human Brain*

The Transcendental Meditation technique is a simple, natural, effortless procedure to develop full human potential and culture experiences of higher states of human consciousness. Research indicates that the individual practice of the Transcendental Meditation technique provides a unique state of deep physiological rest that dissolves accumulated stress and tension while increasing intelligence, creativity, happiness, and self-actualization; increasing energy and improving health; and enhancing personal relationships. This course will cover the nature of the practice of the Transcendental Meditation technique, scientific research, and its applications in individual life and society. Personal instruction in the Transcendental Meditation technique will be included in this course. (The laboratory component of this course will include twice-daily practice of the Transcendental Meditation technique and three months of follow-up meetings and lectures.) (2 credits)

ED 110 CTTS: Learning Strategies for a Globalizing World—Harmonizing Diversity While Gaining Knowledge for Action, Achievement and Fulfillment

In this course, students practice various learning skills, breaking each one down into parts and discovering how the parts fit together and discovering how different skills connect to one another. Students from other countries discuss learning strategies they have used in their home countries and how they relate to the new strategies they have been introduced to in the U.S. U.S. students explore college level learning strategies. Topics include: fundamentals of learning, active listening and note taking, efficient study reading, goal setting and time management, preparing for and taking exams, getting the most out of Maharishi Vedic Science points, preparing and giving group and individual presentations, internet research, and writing a research paper. (4 credits) *Prerequisites:* STC 108, taken during students' first semester

ED 333 Literature for Children: Identifying Life-Supporting Literature to Prepare Children for the Age of Enlightenment

Students become familiar with different genres of children's literature, evaluate selections from those genres, use technology to respond to literature and develop their personal bibliography. (2 credits)

ED 372 Arts Integration in the Elementary School: Enlivening Creative Intelligence through Art, Music and Drama

This course develops the concept of the arts as fundamental to enhancing learning, thinking and creativity. It gives elementary teachers a foundation in art methods and materials, music methods and materials, and projects and performances in drama. Topics include: the impact of the arts on student learning, how to integrate the visual and performing arts with other subjects, how to design successful art, music and drama projects. Course participants will design and teach art, music and drama lessons to elementary students. (4 credits)

ED 374 Teaching Secondary Art: Expressing the Joy of Pure Consciousness

In this course, students become familiar with the theory, basic concepts, and techniques used to teach secondary school art. Topics include: teaching methods and curriculum for art. Materials fee is \$15. (4-6 credits) *Prerequisite:* ED 460

ED 376: Methods of Teaching Elementary Health and Physical Education: Understanding the Mechanics of Self-Referral in the Classic Triad of Mind, Body, Spirit

This course introduces teaching methods for elementary physical education. Topics include: strategies for teaching physical education in accordance with the stages of

children's motor development, classroom management, lesson planning, and holistic health and fitness. (1 credit)

ED 398 Internship in Teaching and Curriculum: Promoting Peace and Heaven on Earth

This course is an elective for students who wish to have additional practical experience in elementary or secondary education. Faculty members help place students in educational institutions with responsibilities appropriate to their preparation. Students assist or co-teach in classrooms, under the supervision of University faculty. Readings, journal writing, other written exercises, and regular performance feedback help guide and inform their practical teaching experiences. (variable credits) *Prerequisite:* consent of the instructor

ED 400 Theory and Practice of Consciousness-Based Education

Consciousness-Based Education is introduced in this course as the approach developed by Maharishi Mahesh Yogi to restore knowledge of the knower as the foundation and the goal of education. The course introduces the principles, practices, and a broad overview of the research on this approach to education. (2 credits)

ED 407 Stability and Change in American Education: Understanding the Fulfillment of the American Educational System

This course explores the history of American Education, its traditions and its efforts to reform and improve. Students also learn about Consciousness-Based Education as a part of this reform effort. They study research on educational innovations with promise for improving school performance. Other topics include school law, structure of American education, major legislative initiatives, understanding educational research. (4 credits)

ED 409 Reading and Adolescent Literature: Pure Wakefulness as the Ground for Literary Appreciation

This course addresses both the nature of the reading process and the range of literature appropriate for secondary level students (grades 7–12). Topics include: a review of literacy goals for secondary education, models of reading comprehension, strategies for teaching reading skills, assessment of reading ability, types of adolescent literature, and recommended reading for different ages and interests. (2 credits — required for all students planning to teach secondary school English)

ED 420 Neurophysiology of Learning and Development in Children: How Pure Intelligence Comes to Know Itself through the Child's Developing Nervous System

This course has two parts: the first deals with theories of human development; the second deals with theories of learning. The first part of the course looks at theories of both

cognitive and affective development and deals with topics such as factors influencing development, endpoints of development, and the nature of intelligence. The second part of the course focuses both on cognitive and behavioral views of learning. Topics include: classical and operant conditioning, social learning, information processing, problem solving, creativity, and constructivism. (4 credits)

ED 426 Teaching with Learner Differences in Mind: Honoring Diversity within the Unity of Creation

This course investigates the various learning characteristics of students with disabilities as well as gifted students, and accommodations and modifications elementary and secondary school teachers can use to develop the full range of learning abilities. The course also considers the relationship between the individual and society, and between individual cultures in a pluralistic society. Topics include: identifying the exceptional student, creating least restrictive environments, preparing the individual education plan, differentiation, identifying and preventing bias, cultural sub-groups and multi-cultural education. (4 credits) *Prerequisites:* ED 460 and ED 480 or 493

ED 430 Technology in the Service of Learning: Doing Less and Accomplishing More with Technology

This course introduces students to the range of educational technologies being used in schools today and a number of technologies that have not yet made their way into common use. Technologies studied include the interactive whiteboard, video capture of lecture or student presentation, podcasting, social media, and various Web 2.0 resources. Students add technologies to their existing repertoire and learn to evaluate the appropriateness of technologies for educational goals. (2-4 credits)

ED 435 Educational Assessment and Evaluation: Charting the Growth of Self-Referral Consciousness

This course examines the theory, research, and best practice associated with classroom assessment, grading, and standardized testing in formal educational settings. Students learn both the conceptual underpinnings of these areas of education and they develop within their own areas of expertise three different types of classroom assessments. Students may develop these assessments for elementary, secondary, or non-traditional teaching situations. Other topics include formative and summative assessment; reliability and validity as criteria of good assessment instruments; knowledge, reasoning, product, attitudes, and performance as four targets of assessment; selected response, essay, performance, and personal communication types of assessment; and daily, weekly, and monthly cycles of assessment. (4 credits)

ED 440 Building Community: Creating Unity in Diversity

This course introduces the sociology of community life and the factors that affect the health of communities. Students learn about strongly and weakly cohesive communities and strategies that schools can adopt to strengthen a community and support students and their families. Topics include: the indicators of stress and health in a community, service learning, ecology of learning, and coherence of collective consciousness. (2 credits)

ED 448 Methods of Teaching Elementary Mathematics: Exploring the Structure of Pure Knowledge in Theory and in Practice

This course introduces best practices in teaching elementary mathematics. Topics include: strategies for teaching numbers and operations, measurement, data analysis, probability and assessment. Students observe, design and teach lessons in an elementary classroom. (4 credits) *Prerequisite:* Math 051

ED 460 Consciousness-Based Curriculum Design: Planning for Achievement and Fulfillment

Students learn to plan a unit of instruction using the approach of “backward design,” in the context of Consciousness-Based Education. The primary tools of CBE learned are the Unified Field Chart, the main point chart, and the course overview chart. The course also introduces the fundamental principles and methods for creating classroom assessments. (4 credits) *Prerequisite:* ED 420

ED 470 Mastering Classroom Management: Gaining Leadership in the Classroom through the Authority of the Total Potential of Natural Law

Students learn the basic principles of leadership and classroom management from Maharishi’s Principles of Ideal Teaching and the social science literature. They practice specific time-honored techniques and they practice developing the judgment of a leader through numerous case studies. Topics include: understanding student needs, motivation, building relationships in the classroom, dealing with minor disruptions and chronic misbehavior, and problem-solving with students. (2 credits)

ED 480 Methods of Teaching in Secondary School: Creating Courses Which Connect Every Part of Knowledge to the Whole of Knowledge and the Whole to the Self

This course requires that students investigate the planning, teaching, and assessment strategies that are appropriate to their intended teaching area. Students spend a good portion of their time observing and assisting in a secondary school classroom. They prepare and teach one or more lessons. Specific topics include: national standards, scope and sequence in their subject, clinical interviews of students, main concepts of the

discipline, and design of main points and Unified Field Charts. (4-6 credits) *Prerequisite:* ED 460

ED 483 Teaching Elementary Art: Expressing the Joy of Pure Consciousness

In this course, students become familiar with the theory, basic concepts, and techniques used to teach elementary school art. Topics include: teaching methods and curriculum for art. Materials fee is \$15. (1-2 credits)

ED 487 Teaching Elementary Science: Discovering the Self, the Constitution of the Universe, as the Basis of All Natural Phenomena

This course prepares the teacher candidate to foster scientific inquiry and problem solving in elementary school children. Topics include: scientific concepts, scientific literacy, and science methods, materials and assessment in the elementary school. (4 credits) *Prerequisite:* ED 460

ED 488 Teaching Elementary Music: Enjoying the Flow of Wakefulness

This course presents an introduction to elementary school music methods and materials. Topics include: teaching behaviors and strategies for music education, use of contemporary technology in teaching music, evaluation in music education. (1-2 credits)

ED 489 Social Studies and the Elementary Curriculum: Creating Ideal Citizens of the Age of Enlightenment through Classroom Experiences That Inspire and Enlighten

This course presents an introduction to social studies, including methods and materials. Topics include: designing credits and lessons, aligning curriculum with national standards and the Iowa Core Curriculum, project-based learning, and assessment. (4 credits) *Prerequisite:* ED 460

ED 490 Student Teaching in Secondary School: Established in Being, Perform Action That Leads to the Fulfillment of Student and Teacher

Through daily observing, course planning, teaching, and course evaluation, students come to assume the full responsibility of the full-time teacher. Critiques by supervising and cooperating teachers and by the student teacher, weekly seminars, regular observations, and written student analyses of their teaching promote comfortable and efficient growth toward effective teaching, educational evaluation, and school leadership. (16 credits) *Prerequisite:* consent of the Department

ED 493 Methods of Teaching Elementary Reading and Language Arts: Understanding and Experiencing How the Language Arts Develop Self-Referral in Teacher and Student

This course is an introduction to methods and materials for teaching reading and language arts in the elementary school classroom. Topics include: diagnosis and evaluation of reading skills and comprehension; word attack, vocabulary, and comprehension strategies; the reading/writing connection; strategies for developing listening and speaking skills; expository and narrative writing; integrating the language arts throughout the curriculum; analysis of commercial reading education materials; use of technology in teaching reading and language arts; and reading materials and methods for students with special needs. Students will apply what they are learning as they spend part of each day in an elementary reading classroom. (4 credits) *Prerequisite:* ED 460

ED 494 Student Teaching in the Elementary School: Established in Being, Perform Action That Leads to the Fulfillment of Student and Teacher

This course develops effective teaching skills through daily observation, planning, teaching, and evaluation in the classroom. Course work includes weekly seminars, regular observations, written and oral analyses of teaching, critiques by supervising and cooperating teachers and by the student teacher. (16 credits) *Prerequisite:* consent of the Department

ED 496 Capstone in Educational Foundations

Students who are majoring in Educational Foundations do original research in an area of education in which they are interested. A faculty mentor guides their project, which culminates in a thesis of publishable quality and a presentation to Departmental faculty and students. (4 credits) *Prerequisite:* consent of the Department

ED 497 The Teacher Work Sample

Students who are gaining an elementary or secondary teaching license design, teach and evaluate a unit of curriculum during student teaching. This final course is an opportunity to analyze that instructional design and reflect on future professional growth. The work sample analysis is presented to departmental faculty and students. (2 credits)

Prerequisite: ED 490 or ED 494

ED 499 Directed Study

(variable credits) *Prerequisites:* consent of the Department and the Academic Standards Committee

Graduate Courses

ED 501 The *Transcendental Meditation* Program: Developing the Total Potential of the Human Brain

The Transcendental Meditation technique is a simple, natural, effortless procedure to develop full human potential and culture experiences of higher states of human consciousness. Research indicates that the individual practice of the Transcendental Meditation technique provides a unique state of deep physiological rest that dissolves accumulated stress and tension while increasing intelligence, creativity, happiness, and self-actualization; increasing energy and improving health; and enhancing personal relationships. This course will cover the nature of the practice of the Transcendental Meditation technique, scientific research, and its applications in individual life and society. Personal instruction in the Transcendental Meditation technique will be included in this course. (The laboratory component of this course will include twice-daily practice of the Transcendental Meditation technique and three months of follow-up meetings and lectures.) (2 credits)

ED 505 Learning Strategies for a Globalizing World: Harmonizing Diversity while Gaining Knowledge for Action, Achievement, and Fulfillment

In this course, students explore various learning strategies and how different strategies connect to one another. Students who have come from other countries discuss learning strategies they have used in their home countries and how they relate to the new ones they have been introduced to in the U.S. American students explore college level learning strategies. Topics include: fundamentals of learning, active listening and note taking, efficient study reading, goal setting and time management, getting the most out of Maharishi Science of Consciousness elements, preparing for and taking exams, preparing presentations, internet research, and writing a research paper. The research paper is taught in different stages in order to develop critical thinking skills required for graduate level courses. (4 credits)

ED 507 Stability and Change in American Education: Understanding the Fulfillment of the American Educational System

This course explores the history of American Education, its traditions and its efforts to reform and improve. Students also learn about Consciousness-Based Education as a part of this reform effort. They study research on educational innovations with promise for improving school performance. Other topics include school law, structure of American education, major legislative initiatives, and understanding educational research. (4 credits)

ED 509 Consciousness-Based Curriculum Design: Planning for Achievement and Fulfillment

Students learn to plan a unit of instruction using the approach of “backward design,” in the context of Consciousness-Based Education. The primary tools of CBE learned are the Unified Field Chart, the main point chart, and the course overview chart. The course also introduces the fundamental principles and methods for creating classroom assessments. (4 credits) *Prerequisite:* ED 520

ED 510 Theory and Practice of Consciousness-Based Education

This course is the foundational course for all standard and intern programs of the Education Department. It examines the fundamental goals, principles, and practices of Consciousness-Based education as developed by Maharishi Mahesh Yogi. As part of this introduction, it also covers the basic principles of the Science of Creative Intelligence and Maharishi’s Principles of Ideal Teaching. (2 credits)

ED 511 Educational Assessment and Evaluation: Charting the Growth of Self-Referral Consciousness

This course examines the theory, research, and best practice associated with classroom assessment, grading, and standardized testing in formal educational settings. Students learn both the conceptual underpinnings of these areas of education and they develop within their own areas of expertise three different types of classroom assessments. Students may develop these assessments for elementary, secondary, or non-traditional teaching situations. Other topics include formative and summative assessment; reliability and validity as criteria of good assessment instruments; knowledge, reasoning, product, attitudes, and performance as four targets of assessment; selected response, essay, performance, and personal communication types of assessment; and daily, weekly, and monthly cycles of assessment. (4 credits)

ED 520 Neurophysiology of Learning and Development in Children: How Pure Intelligence Comes to Know Itself through the Child’s Developing Nervous System

This course studies the implications of theories of human development and learning for education. The first part of the course looks at theories of both cognitive and affective development and deals with topics such as factors influencing development, endpoints of development, and the nature of intelligence. Students will study the work of Piaget, Vygotsky, Erikson, Kohlberg, Gardner, and Maharishi. The second part of the course focuses on both cognitive and behavioral views of learning. Topics include: classical and operant conditioning, social learning, information processing, problem solving, creativity, and constructivism. (4 credits)

ED 522 Building Community: Creating Unity in Diversity

This course introduces the sociology of community life and the factors that affect the health of communities. Students learn about strongly and weakly cohesive communities and strategies that schools can adopt to strengthen a community and support students and their families. Topics include: the indicators of stress and health in a community, service learning, ecology of learning, and coherence of collective consciousness. (2 credits)

ED 526 Teaching with Learner Differences in Mind: Honoring Diversity within the Unity of Creation

This course investigates the various learning characteristics of students with disabilities as well as gifted students, and accommodations and modifications elementary and secondary school teachers can use to develop the full range of learning abilities. The course also considers the relationship between the individual and society, and between individual cultures in a pluralistic society. Topics include: identifying the exceptional student, creating least restrictive environments, preparing the individual education plan, differentiation, identifying and preventing bias, understanding cultural sub-groups and multi-cultural education. (4 credits) *Prerequisites:* ED 509 and ED 556 or 571

ED 530 Exploring Educational Innovation in America

This course studies the variety of school-based innovation in modern-day America, using the example of schools within traveling distance of Fairfield, Iowa. The instructor uses a variety of readings to introduce the range of current innovations in the U.S. and then leads the group on a series of excursions in the Midwest region. Students analyze and report back to the rest of the University community on the innovations that they observe. (2 credits)

ED 533 Literature for Children: Identifying Life-Supporting Literature to Prepare Children for the Age of Enlightenment

Students become familiar with and sample the different genres of children's literature, evaluate literature, use technology to respond to literature and develop their personal bibliography. (2 credits)

ED 549 Mastering Classroom Management: Gaining Leadership in the Classroom through the Authority of the Total Potential of Natural Law

Students learn the basic principles of leadership and classroom management from Maharishi's Principles of Ideal Teaching and the social science literature. They practice specific time-honored techniques and they practice developing the judgment of a leader through numerous case studies. Topics include: understanding student needs, motivation, building relationships in the classroom, dealing with minor disruptions and chronic misbehavior, and problem-solving with students. (2 credits)

ED 554 Teaching Elementary Mathematics: Exploring the Structure of Pure Knowledge in Theory and in Practice

This course develops an understanding of how children learn elementary mathematics with an emphasis on current best practice and instructional methods. Topics include: strategies for teaching numbers and operations, measurement, data analysis, probability and assessment. Students observe, design and teach lessons during a practicum in an elementary classroom. (4 credits)

ED 556 Methods of Teaching in Secondary School: Creating Courses Which Connect Every Part of Knowledge to the Whole of Knowledge and the Whole to the Self

This course builds on the general teaching methods course and requires that students investigate the theory behind teaching in their subject. They also study the planning, teaching, and assessment strategies that are appropriate to their intended teaching area. Students spend a good portion of their time observing and assisting in a secondary school classroom. They prepare and teach one or more lessons and do a mini-work sample in which they plan, teach and evaluate a lesson. Specific topics include: national standards, scope and sequence in their subject, student knowledge of their subject, main concepts of the discipline, reading across the curriculum, data-based instructional decision making, and research on new trends or methods of instruction. The course is co-taught by University and school faculty (4 credits) *Prerequisite:* ED 509

ED 560 Teaching Elementary Science: Discovering the Self as the Basis of All Natural Phenomena

This course provides the teacher with research-based strategies to develop a scientific approach and scientific problem-solving abilities in elementary school children. Topics include: novice and expert science concepts, cognitive development, and science methods and materials in the elementary school. Students design and teach science lessons during a practicum in an elementary classroom. (4 credits) *Prerequisite:* ED 509

ED 568 Student Teaching in the Elementary School: Established in Being, Perform Action That Leads to the Fulfillment of Student and Teacher

In this course, student teachers apply the knowledge they have gained during their course work to the elementary school classroom. Students observe, aid, tutor, and gradually assume the responsibilities of a professional teacher. (16 credits) *Prerequisite:* consent of the Department

ED 569 Student Teaching in Secondary School: Action and Achievement Lead to Fulfillment

Through daily observing, course planning, teaching, and course evaluation, students come to assume the full responsibility of the full-time teacher. Critiques by supervising and cooperating teachers and by the student teacher, weekly seminars, regular observations, and written student analyses of their teaching promote comfortable and efficient growth toward effective teaching, educational evaluation, and school leadership. (16 credits) *Prerequisite:* consent of the Department

ED 571 Methods of Teaching Elementary Reading and Language Arts: Understanding and Experiencing How the Language Arts Develop Self-Referral in Teacher and Student

This course introduces methods and materials for teaching reading and language arts in the elementary school classroom. Topics include: word attack, vocabulary, and comprehension strategies; the reading/writing connection; strategies for developing listening and speaking skills; expository and narrative writing; integrating the language arts throughout the curriculum; analysis of commercial reading education materials; use of technology in teaching reading and language arts; and reading materials and methods for students with special needs. Students apply what they are learning as they spend part of each day in an elementary reading classroom. (4 credits) *Prerequisite:* ED 509

ED 573 Social Studies and the Elementary Curriculum: Creating Ideal Citizens of the Age of Enlightenment through Classroom Experiences That Inspire and Enlighten

This course presents an introduction to the methods and materials of elementary social studies. Topics include: designing units and lessons, aligning curriculum with national standards and the Iowa Core Curriculum, project-based learning, and assessment. Students are placed in a daily practicum in an elementary social studies classroom. (4 credits) *Prerequisite:* ED 509

ED 5741 Arts Integration in the Elementary School: Enlivening Creative Intelligence through Art, Music and Drama

This course develops the concept of the arts as fundamental to enhancing learning, thinking and creativity. It gives elementary teachers a foundation in art methods and materials, music methods and materials, and projects and performances in drama. Topics include: the impact of the arts on student learning, how to integrate the visual and performing arts with other subjects, how to design successful art, music and drama projects. Course participants design and teach art, music and drama lessons to elementary students. (4 credits)

ED 574 Teaching Elementary Art: Expressing the Joy of Pure Consciousness

In this course, students become familiar with the theory, basic concepts, and techniques used to teach elementary school art. Topics include: teaching methods and curriculum for art. Materials fee is \$15. (1-2 credits)

ED 575 Teaching Elementary Music: Enjoying the Flow of Wakefulness

This course presents an introduction to elementary school music methods and materials. Topics include: teaching behaviors and strategies for music education. (1-2 credits)

ED 576 Methods of Teaching Elementary Health and Physical Education: Understanding the Mechanics of Self-Referral in the Classic Triad of Mind, Body, Spirit

This course introduces teaching methods for elementary health and physical education. Topics include: strategies for teaching physical education in accordance with the stages of children's motor development, classroom management, lesson planning, and holistic health and fitness. (1 credit)

ED 580 Foundations of Professional Success: Established in Being, Teach

This course is a capstone course for the Intern Teaching Program which requires teacher interns to reflect on their first year of teaching, make strategic improvements and prepare for their second year of teaching. Candidates learn the skills of website design and create two websites for courses they will be teaching in the next academic year. These websites include syllabi, classroom guidelines, evaluation plans, and resources for their planned courses. This course is offered in a distance format. (2 credits)

ED 585 The Teacher Work Sample (2 credits)

Students who are gaining an elementary or secondary teaching license design, teach and evaluate a unit of curriculum during student teaching. This final course is an opportunity to analyze that instructional design and reflect on future professional growth. The work sample analysis is presented to departmental faculty and students. (2 credits) ED 568 or ED 569

ED 593 Capstone Course for School Improvement

Students work with an advisor to plan and execute a final project, which may be focused on library research on a particular educational innovation in greater depth, or on the design of an educational program or institution applying a set of educational innovations. Each final project is presented to the community in a multi-media presentation at the end of the course. (8 credits) *Prerequisite:* consent of the Department

ED 594 Intern Teaching Seminar: Promoting Balance of Life in the Midst of Dynamic Activity

This course is offered concurrently with the intern's first year of professional teaching. As candidates encounter challenges in their classrooms, they participate in regular conference phone discussions and online mentoring to address these challenges. They meet regularly with school mentors and visiting supervisors from the University, and they keep an ongoing journal which documents their discoveries and adjustments. This course is offered in a distance format. (4 credits)

ED 596 Practicum in Teaching

This course is an application of the knowledge of teaching gained during the Master of Arts program in a full time position with a cooperating school. Students submit regular reports of their progress, as does the cooperating school. The course and the reports are oriented toward the achievement of the Iowa Professional Teaching Standards. (2-10 weeks, 2-10 credits)

ED 598 Curricular Practical Training in Mathematics or Science Teaching: Teaching as the Vehicle of Growth toward Enlightenment

Students enroll for this course during their two years of paid curricular practical training in the Master of Arts in Education program. They file regular reports of their progress, participate in an online problem-solving Listserv; and they participate fully in the school's ongoing faculty development. (4.5 credits per semester—may be repeated for credit)

ED 599 Directed Study

(variable credits) *Prerequisite:* consent of the Department faculty

ED 601 Teaching Elementary School Art — Specialist Training

This course presents an introduction to the elementary school teaching methods and materials for the subject matter specialist in art. It provides opportunities for designing and teaching elementary school units in this field. Topics include: unit design, teaching strategies special to elementary art, and assessment in art. (4 credits)

ED 647 Technology in the Service of Learning: Doing Less and Accomplishing More with Technology

More and more schools are investing in technology with the hope of improving student learning. This course investigates the most promising classroom uses of technology and the strategies for applying it effectively. The course is primarily for practicing teachers and helps them better achieve their objectives with the wise use of computer-assisted instruction, Internet projects, productivity tools for teachers, and student multimedia assignments. (2-4 credits)

DEPARTMENT OF EXERCISE AND SPORT SCIENCE

FACULTY

- Ken Daley, M.Ed., Chair, Associate Professor of Exercise and Sport Science
- Tania Kalamara, B.A., Lecturer in Exercise and Sport Science

INTRODUCTION

The Department of Exercise and Sport Science is committed to offering a wide range of sport and recreation activities to meet the needs of our diverse international population. The department administers undergraduate recreation courses, intercollegiate and recreational sports clubs, and teaches selected courses in exercise and sport science. Recreation classes serve as a dynamic activity to balance the academic routine of students. Sports clubs and intramural events provide ongoing competition for sports enthusiasts.

The department is very proud to offer a high quality outdoor recreation/adventure program. We offer day-, week-, and month-long courses in experiential outdoor recreation and leadership. We engage in many activities such as windsurfing, whitewater kayaking or canoeing, sea kayaking, flat-water canoeing, rock climbing, swimming, horseback riding, hiking, backpacking, and skiing. We travel to locations throughout the United States. We have also held six-week courses in New Zealand and Australia.

SPECIAL FEATURES

Each fall the department offers its Base Camp, where all freshmen and selected faculty and upperclassmen spend 4 days in a wilderness experience. The students have the opportunity to build friendships for a lifetime as they engage in activities like canoeing, caving, swimming, and mountain biking. The department offers a winter Base Camp for students entering the university during second semester. Activities focus on winter sports like ice-skating, skiing and snow boarding.

DEPARTMENTAL REQUIREMENTS

Graduation Requirement Policies

All undergraduate students must complete a knowledge-based graduation requirement entitled “FOR 103 Health-Related Fitness.” This course should be completed during the student’s second semester.

Undergraduate students are strongly recommended to participate in four hours of dynamic physical activity each week and to request a fitness assessment each semester.

To help students develop and implement a well-rounded fitness program, each student is offered a health-related fitness assessment at the beginning of every semester. The fitness assessment establishes a reference point that allows the student to monitor fitness changes and progress throughout the year. For a schedule of upcoming fitness assessments, contact Ken Daley at kdaley@mum.edu. The faculty in the Department of Exercise and Sport Science are available to assist the students to plan and implement their individualized health and fitness program.

COURSES

ESS 101 Health and Fitness Practicum: Physical Activity to Promote Longevity and Fitness for Life

In this innovative and unique course, students exercise daily, chart their activities, and report their achievement at the end of each month. Each year every student receives a fitness assessment and a personally tailored workout program. Students are then assessed again at the end of the year. A computerized system helps students track their progress and generates a regimen of exercises. (1 credit)

ESS 103 Base Camp: Creating Harmony within the Diversity of Students, Faculty, and Administration

Students, faculty, and staff go to a wilderness area for a camping trip to help build friendship and understanding between all three groups with the goal of establishing cooperation for future endeavors. Activities include canoeing, biking, and hiking, as well as learning outdoor skills. (1 credit)

ESS 325 Rotating University: Leadership in Adventure Sport

This is a leadership-training course held in various locations around the U.S. and the world. Venues have included Southeast Asia, Australia, New Zealand, and the American southwest. All students take an active part in organizing, planning, and leading the course. The students actively interact with local cultures and ecosystems, and typically travel by a combination of transportation ranging from bicycle, car, train, and bus, to boat. Every two to three days the group stops for another adventure, such as surfing, snorkel diving, hiking, mountain biking, rock climbing, sea kayaking, and white-water kayaking/rafting. (4 credits)

ESS 498 Internship

This internship offers practical and advanced knowledge and experience in a specific area of Exercise and Sport Science. Students apply classroom knowledge in a professional

setting that may be on or off campus. Students gain in-depth experience and submit a report on all their internship activities. (variable credits) *Prerequisites:* consent of the Department and the Academic Standards Committee.

ESS 499 Directed Study: Cultivating Higher Potentials of Body and Mind through Exercise and Sport

(variable credits) *Prerequisite:* consent of the Department faculty

INTENSIVE ENGLISH PROGRAM

FACULTY

- Mark Ellinghaus, M.A. Instructor of ESL, Director of the Intensive English Program
- Caroline Hazleton, M.A. Instructor of ESL
- Marilyn Sutherland, Teaching Assistant/Lecturer of ESL, Intensive English (ESL) Program Coordinator

INTRODUCTION The Focal Skills Approach

Courses in the Intensive English Program (IEP) at Maharishi University of Management prepare international students to take their place alongside native speakers in our academic program courses.

The program follows the innovative, effective, and non-traditional Focal Skills Approach to English language acquisition. The Focal Skills method was developed 25 years ago and is used by many universities around the world to prepare students for university level study in English. Focal Skills has been shown to work more quickly than traditional methods.

SPECIAL FEATURES

- **Sequential Skill Development:** All students enrolled in the IEP are given an initial assessment of English language ability upon arrival. Based on their performance on this assessment, students are then placed in one of the four learning modules. In each module, students dedicate their time each day to the development of a particular language skill: listening, reading, or writing in that order, with a fourth (advanced) module dedicated to college preparation.
- **4-Week Learning Modules:** At the end of each 4-week course block, students re-take the assessment for that particular language skill. Based on their score, students are either moved on to the next learning module during the next course block (for example, from the listening module to the reading module) or they repeat the same learning module for more practice and development of that particular language skill.

Students remain in a given learning module (listening, reading, writing, or advanced) for as long as needed to develop sufficient proficiency as indicated by a passing score on the

assessment - usually from 1 to 4 months. In this way, students develop their English language ability based on a solid foundation of previously acquired skills. Students may also skip a module if their assessment score indicates that additional focus on that language skill is not necessary.

DEPARTMENTAL REQUIREMENTS

Exiting the Intensive English Program

Students remain in the IEP until they can demonstrate via their listening, reading, writing and speaking performance that they are ready for rigorous academic study in English. A combination of formal standardized testing, student grades and informal assessment is used to determine student readiness to begin academic study. See program website for more information: www.mum.edu/esl.html

Focal Skills Assessments and Grading

Upon arrival and at the end of each 4-week block, all students' English proficiency is assessed using one or more standardized assessments. These tests are used to determine placement within the IEP and to determine when students are ready to progress to the next Focal Skills module. Scores on these tests do not effect student grades that are based primarily on participation, attendance and homework completion.

COURSES

IEP 011 Listening Module 1

IEP 012 Listening Module 2

IEP 013 Listening Module 3

IEP 014 Listening Module 4

The Listening module may be skipped by any student receiving a score of 60% or higher on the Focal Skills Listening test. During the Listening Module, students will spend 3 classroom hours each day engaged in activities geared toward the development of their ability to understand normal spoken English. A variety of classroom techniques are used in these modules. During the remaining classroom hour each day, students engage in semi-independent study of their choosing in the IEP resource room. This may include reading, watching movies, watching lectures on the internet, listening to books on tape, reviewing vocabulary with computer software, etc. This semi-independent study is required to be done with teacher support. Students repeat a listening module, if necessary, until they achieve a passing score on the Focal Skills listening test. *Prerequisite:* admission to the Intensive English Program

IEP 021 Reading Module 1**IEP 022 Reading Module 2****IEP 023 Reading Module 3****IEP 024 Reading Module 4**

Students may skip the Reading Module if they receive a comprehension score of 60 or better on the Focal Skills reading test. During the Reading Module, students focus the majority of their time developing their reading skill in English. This includes both the expansion of their English vocabulary and the development of reading speed and fluency. Students engage in both extensive and intensive reading activities. Extensive reading is individual reading for pleasure done in class with teacher support. Maharishi University of Management has a large collection of graded reading material, both fiction and non-fiction so that students can always find something interesting for them to read at their current reading level. Intensive reading activities involve group reading of contemporary newspaper and magazine articles selected by the students based on their own interests.

By reading together in class with the teacher, students have the opportunity to clarify difficult passages, acquire advanced vocabulary and discuss any unfamiliar grammatical structures as needed in the context of their reading. Students in the Reading Module will have an hour each day for semi-independent study in our resource room as described in the Listening module description above. *Prerequisite:* a comprehension score of 60 on the Focal Skills listening test

IEP 031 Writing Module 1**IEP 032 Writing Module 2****IEP 033 Writing Module 3****IEP 034 Writing Module 4**

Students may skip the Writing Module if they receive a score of 70 or better on the Focal Skills writing test. The purpose of the Writing Module is to develop students' ability to write clear, grammatically correct sentences and paragraphs in English. While this is not a composition class, the elements of good writing are discussed and practiced. Students repeat this module as necessary until they achieve a passing score of the Focal Skills writing test. Students in this module will have an hour each day for semi-independent study in our resource room as described in the Listening Module description above.

Prerequisite: a comprehension score of 60 on the Focal Skills listening and reading tests

IEP 041 Advanced Module 1

IEP 042 Advanced Module 2

IEP 042 Advanced Module 3

IEP 044 Advanced Module 4

In the Advanced Module, students combine the skills of reading, listening, writing, and speaking to develop the level of academic English necessary to achieve success in their future academic classes. Through the use of authentic materials, students refine their ability to understand college lectures, read and comprehend college textbooks, write college-level essays, give classroom presentations, and actively participate in classroom discussions. *Prerequisites:* a score of 60 or better on the Focal Skills listening and reading tests and 70 or better on the Focal Skills writing test

Please note: The Writing and Advanced modules may be combined into a single module depending on student enrollment and at the discretion of the Department Director.

DEPARTMENT OF LITERATURE AND CREATIVE WRITING

FACULTY

- Terry Fairchild, Ph.D., Chair, Professor of Literature
- James Fairchild, Ph.D., Associate Professor of Literature and Writing
- Dara Llewellyn, Ph.D., Assistant Professor of Literature and Writing
- Nynke Passi, M.A., Assistant Professor of Literature and Writing
- Adile Esen, Ph.D., Assistant Professor of Literature and Writing
- Nancy Gibson, M.A. TESOL, Instructor of Composition

INTRODUCTION

A Spiritual Approach

Literature, age after age, recounts the story of life in its innumerable variety. Unlike history or the sciences, literature transcends the formulas and the simple facts — the roughest traces of our common being. Literature is as much concerned with what is possible as what has been. In this sense, literature has resisted time, has come to be cherished like scripture, and has always been spiritual. The study of literature is spiritual because it concerns itself with the great questions of life, history's most significant moments, and the unlimited potential of the human spirit to aspire and renew itself.

Literary study investigates the essence of what we are as a people through the incandescent lens of language. In form it is the poetic, the dramatic, the eternal tale of our common existence. To study literature is to expand the awareness, to experience imaginatively what life is and what human beings are capable of. Literature chronicles the history of human trials, and more importantly, human triumphs — those victories that transcend our physical, mental, and spiritual limitations. Literature is our window into life's most compelling truths. It knits the world together into one inseparable family. It is "the news," reports Ezra Pound, "that stays the news."

The Literature and Creative Writing course of study at Maharishi University of Management satisfies the general literary goals of any liberal arts program, but it also offers a vision and provides a personal development unequaled in any other literature or writing program. It allows students to develop their own consciousness — "expand the container of knowledge" — as they acquire information, increase their perception, and polish their literary skills. Developing consciousness means directly experiencing and utilizing the very source of knowledge, of all existence, through the practice of the

Maharishi Transcendental MeditationSM technique. In accessing this eternal and elemental source of life, the student's awareness and academic competence effortlessly and spontaneously expand along with the overall health and general well-being. Moreover, the literature/writing student at Maharishi University of Management, with no extra effort, begins to contribute to the long-cherished goal of world peace. As the individual's own coherence increases, the local, national, and world communities also become more coherent because that person, belonging to those larger groups, radiates his/her expanding coherence among the individuals who make up those larger groups. Hence, in reducing our own stress and increasing our own effectiveness we naturally contribute to world harmony. In the most practical way imaginable, literature/writing majors at Maharishi University of Management become creators and maintainers of a peaceful world by:

- developing world peace through the collective practice of the Transcendental Meditation and TM-Sidhi programs
- learning to value the environment by studying those nature writers sensitive to the needs of our world habitat
- increasing our creative potential and expanding our individual awareness to discover new and powerful solutions to the world's problems
- gaining the support of all-mighty Natural Law that allows one to fulfill our most cherished personal and societal goals
- learning to operate from the source of Natural Law so as not to make mistakes in life
- reducing personal and communal stress — the source of war, suffering, and strife in the world
- honoring each culture's unique contributions to the world to enhance global unity.

SPECIAL FEATURES

The Literature Program

- A Bachelor of Arts in Literature engenders a student with the most universal, well-rounded education imaginable.
- To study literature is also to study history, religion, art, psychology, sociology, science, and politics, for all exist within the domain of the literary text.
- All of the Literature courses at Maharishi University of Management are connected to the Unified Field, the most fundamental field of existence.
- Courses with a particularly spiritual turn, including *The Bible as Literature*, *Asian Literature*, *The Bhagavad-Gita and Literature*, and *The Epic* (featuring *The Ramayana*), are regularly offered.

- Courses are also available that emphasize “Consciousness” and Literature, including *American Transcendentalism*, *Native American Literature*, *The Greek Classics*.
- A course entitled “Literature and the Environment,” featuring works on literature and nature, is available as an elective.
- We study all the works in context of the historical, spiritual, political, and social forces that produce them.
- We routinely examine in our literature courses the quantum mechanical nature of existence. Students learn to find their ever-expanding Self in all that they read.
- Each course is taught as a historical survey, genre survey, or seminar.
- Courses are taught in European literature, American literature, and the world classics in translation.
- Multicultural works and gender-balanced texts are integrated into the curriculum.
- Upon graduation, all Literature/Writing students find that their skills in writing, reading, analysis, perception, speaking, and the understanding of consciousness have significantly developed.
- A speaking and performance component in every class ensures poise, flow, and coherence in public speaking.

The Writing Program

- Today, many professions not only appreciate but demand fluency in writing.
- Because writing is invaluable for all majors, any student who desires to communicate effectively, to inform, and to persuade readers through the written word is encouraged to take courses in our writing program.
- The most effective means to develop writing is through a combination of reading good examples of writing and through the applied expression of writing.
- The ideal writing program at this University is 24 credits of writing and 24 credits of literature.
- Students may complete a minor in writing by taking any five upper division writing courses (WTG 200 level or above). To develop their writing skills, students may continue to take a variety of writing courses beyond the 20-credit minor.
- Our 5-block minor focuses on both creative writing (fiction and poetry) and a variety of essay forms (such as the personal essay, travel writing, writers on writing, and photo journalism).
- In our writing program, from day one students develop both the art and craft of writing.

- To develop clarity and grace, students routinely respond to a wonderful selection of literary texts.

WRITING PROGRAM FEATURES

- Offers a safe haven for developing writers who learn in a completely supportive environment.
- Teaches writing in a professional, workshop atmosphere.
- Transforms aspiring writers into actual writers.
- Presents a variety of writing opportunities, from the purely creative to media-based to the professional and the pragmatic.
- Embraces techniques, including the Transcendental Meditation and TM-Sidhi programs, that develop the writer holistically.
- Creates writers who are the creators of their own selves as well as the literature they produce.
- Gives writing students copious, friendly feedback that assists them in developing quickly as writers.
- Provides students the opportunity to become active members of a thriving writing community, to read their works in a public forum, and to publish in local journals.

DEPARTMENTAL REQUIREMENTS

Graduation Requirements for a Bachelor of Arts Degree in Literature

To graduate with a B.A. in literature, students must successfully complete all general University requirements. (See “Graduation Policies and Degree Requirements” under “Policies and Procedures” in the University Catalog.)

In addition, students are required to take the following courses:

- LIT 205 Introduction to Literature and Writing
- LIT 497 Literature Senior Thesis (a capstone course for graduating seniors)

Plus

48 credits of literature courses (12 four-credit courses)

Graduation Requirements for a Bachelor of Arts in Literature with a Concentration in Writing

To fulfill the requirements for a Bachelor of Arts in Literature with a Concentration in Writing, a student chooses a minimum of any 24 credits of upper division writing courses

(WTG 200 and above) and the same number of credits from a large selection of literature courses (LIT 200 and above). Students must furthermore successfully complete all “general” University requirements for the bachelor’s degree. (Refer to “Degree Requirements” under “Academic Policies.”)

Plus:

- LIT 205 Introduction to Literature and Writing
- LIT 497 Literature Senior Thesis

Requirements for a Minor in Literature

To graduate with a minor in literature, students must successfully complete 20 credits of literature (LIT) courses.

Requirements for a Minor in Writing

To graduate with a minor in Writing, students must successfully complete 20 credits of advanced writing (WTG) courses at the 200-level or higher. Writing courses (WTG) are listed under “Course Descriptions” at the end of this section.

COURSES

Literature Courses

LIT 114 Literature as Self-Discovery: Recognizing Self-Identity as the Fundamental Principle in All Forms of Literature

The acts of reading and writing are both examples of Self-discovery. It is common to think of writing as an act of self-expression just as all art forms are self-expressive. But writers also express even more than they realize, and much of what is written consciously or unconsciously conveys something deeper, including the unmanifest, unbounded, unwritten, absolute Self. What is often overlooked, however, is that reading is also a creative act. When we read, we are absorbing much of the consciousness of the author, but we are also altering it in many ways as well. We cannot help but do so. Each reading is subjective. It conforms to our own individual ways of seeing the world. In this sense, the act of reading is the act of finding one's Self in everything we read. Therefore, this course also functions as Self-discovery because it is our design to locate the absolute, unchanging Self in the midst of the ever-changing diversity of the literary text. In this course we will sample all of the literary genres: the novel (excerpts), the short story, the literary essay, the lyric poem, the film, and a Shakespearean play. We will learn some literary terms, do some creative writing, and discover some strategies for reading and writing. (2 credits)

LIT 205 Introduction to Literature and Writing

This preparatory course is offered early in the academic year and covers three basic areas: a) how to read and analyze literature; b) how to write about literature and incorporate Vedic Science; c) and how to write creative and effective essays. This course is a prerequisite for all courses in the Literature and Creative Writing Department and is required for graduation. (However, it is not a prerequisite for non-majors wishing to take LIT and WTG courses.) Texts include short stories, essays, and a literary handbook especially designed for the course. (4 credits)

LIT 206 Elements of Literature: Exploring the Full Range of Outer and Inner Life in Poetry, Drama, and the Literary Essay

This course focuses on the various genres of literature and the role of consciousness in interpreting literature. Students build on their knowledge of literary analysis from LIT 205 and add explication to their writing skills. The Elements of Literature course presents the department's specialty: the unification of various literary approaches and trends. Students read about contemporary insights into the study of literature that support this direction. (4 credits) *Prerequisite:* LIT 205

LIT 207 The Bhagavad-Gita: The Essence of Veda — Studied as the “Complete Guide to Practical Life,” from Ignorance to Enlightenment

This course will look at the Bhagavad-Gita not only for its insight and inspiration but also for the beauty of its form and language. The primary text of this course will be *Maharishi Mahesh Yogi on the Bhagavad-Gita: A New Translation and Commentary Chapters 1-6*. We will also read the Gita’s last 12 chapters in another translation, a condensed Mahabharata, and *The Legend of Bagger Vance*, a novel based on the Bhagavad-Gita. We will also look briefly at works by other writers such as Emerson, Thoreau, and T.S. Eliot who have been inspired by the Gita. (4 credits)

LIT 220 CCTS: Literature and Enlightenment

A commonly held belief in Western culture over the last two millennia, from the birth of Jesus of Nazareth forward, is that the literature of Europe and the Americas is either founded on a Judeo-Christian theology or on secular humanism. The influence of paganism, pantheism, and the Vedic-Buddhist tradition of the Far East is regarded as minimal. Not only is this a distortion of history, the evidence of the literary canon to the contrary is significant. Hence, in this course we will explore a literature that is concerned with transcendence and liberation. Surprisingly, we will begin at the beginning with Genesis and with that hallmark of Christianity The Sermon on the Mount. We will peruse some works from the Medieval and Renaissance, but our focus will be on the writers of the British and American Romantic and Modernist periods, such as Wordsworth, Shelley, Keats, Emerson, Thoreau, Dickinson, Whitman, Yeats, Eliot, Thomas, and Stevens. We will read a couple of novels by writers like Virginia Woolf and Herman Hesse, and there will be other surprises as well. (4 credits) *Prerequisites:* STC 108, taken during students' first semester or with consent of the Department faculty

LIT 265 Evolution of Film: From the Lumiere Brothers to Kurosawa — Honoring the Tradition of Film Art

This film survey traces the evolution of primarily American and European cinema from the early days of Griffith and Eisenstein through the twentieth and into the twenty-first century. It includes examples of history-shaping movements such as Soviet formalism, German expressionism, French realism, Italian neo-realism, film noir, surrealism, and nouvelle vague. As in LIT 363, we will watch a selection of some of the finest “world masterpieces on film.” (\$15 lab fee) (4 credits)

LIT 302 The Epic: Valmiki’s Ramayana as the Ultimate Epic Narrative — The Hero Conquering Ignorance and Realizing the Self

An epic is a long narrative in elevated style about characters of high position who perform extraordinary actions. From the great world epics, students study principles of

Maharishi Vedic Science to illuminate the subtleties of language and thought. The primary text of this course is the Ramayana. Other selections may include parts of the Bible and other scriptures, Homer's *Odyssey*, Dante's *Divine Comedy*, and Goethe's *Faust*. (4 credits)

LIT 305 Native American Literature

Modern Native Americans have rediscovered their spiritual heritage through a reclaiming of ancient tribal customs. In this course, we will track their spiritual transformation in such works as Leslie Marmon Silko's *Ceremony*, about the healing and new meaning that comes to the hero's life. In Frank Waters's *The Man Who Killed the Deer*, Martiniano has at a young age lost his spiritual bearings but regains them through a series of profound insights. *Black Elk Speaks* is a Native American spiritual-autobiography; at its center is Black Elk's cosmic vision of America's destiny. These and other works, chronicle what is both profound and tragic in the life of America's indigenous peoples. (4 credits)

LIT 325 Classics of Greece and Rome: The Ancient and Eternal Texts of Southern Europe, the Spiritual and Philosophical Sources of the Western Literary Tradition

The literature of ancient Greece and Rome is the source of the Western literary tradition. The Greeks in particular recognized the value of literature as an expression of society's shared ideals and as a means of developing social unity and harmony. Works studied may include Homer's *Iliad* and *Odyssey*, and Virgil's *Aeneid*, Greek lyric poetry, plus selections from Socrates, Plato, Aristotle, Marcus Aurelius, Plotinus, and Heraclitus. (4 credits)

LIT 328 The Bible as Literature: The Divine as the Source, Course, and Goal of All Existence

The Bible as Literature is a two-week course meant to introduce students to the Old and New Testaments of the Bible, as well as examine it as not only a religious text but also as a literary text. Moreover, we will consider the influence of the Bible on literature and culture. Cultural Literacy as it relates to the Bible is a primary aim of the course. We will look closely at *Genesis*, *Exodus*, *Matthew*, *Luke*, *John*, and *Revelations* among the Bible offerings. We will read an assortment of Biblical-influenced literary texts including: D.H. Lawrence's *The Horse Dealer's Daughter*, Eliot's *Journey of the Magi*, Yeats' *Second Coming* and *The Magi*, Keats' *Ode to a Nightingale*, Coleridge's *Rime of the Ancient Mariner*, Dylan Thomas' *Fern Hill*, and many others. We will also watch a couple of films inspired by the Bible such as *Amadeus* and the *7th Seal*. (2–4 credits)

LIT 330 Medieval Literature: From *Beowulf* to Malory — The Unceasing Pursuit of Self-Knowledge

This course opens with the heroic ideals of the Anglo-Saxons, runs through the birth and popularization of courtly love, and ends at the doorstep of the European Renaissance.

Intrinsically involved with the quest motif, this course charts the pilgrimages in Chaucer's *Canterbury Tales*, the adventures of Beowulf, Sir Gawain, and the Arthurian knights (especially those concerned with the quest for the Holy Grail), and Dante's emergence from the inferno into paradise in the *Divine Comedy*. (4 credits)

LIT 331 The Fairy Tale from Ancient to Modern Times

From the earliest times, tales have entertained, intrigued, and instructed humankind. A group of texts considered to be the first collection of tales, called *The Ocean of Story*, compiled by Somadeva Bhatta in the 11th century, is the source of many modern fairy tales we grew up watching in Disney films. Looking closely at these tales and others reveals deeper themes and issues than we may have glimpsed as children. This course explores some of the earliest tales human beings told one another and examines the underlying realities and issues that informed this mode of entertainment, this ocean of story. (4 credits)

LIT 335 Shakespeare's Festival of Comedy: The Twin Themes of Shakespeare's Comic Vision — The Healing Power of Love and the World Upheld by a Divine Order

Comedy is a discovery of perfection, of harmony, of one's Self, of an underlying spiritual existence. It is the triumph over adversity, fear, and suffering. It is the celebration of life eternal. In this course, we will examine the nature of comedy and many of Shakespeare's favorite themes such as love, order, immortality, and right action. Among the plays we will read are *Taming of the Shrew*, *Merchant of Venice*, *A Midsummer Night's Dream*, *As You Like It*, *Much Ado About Nothing*, *Twelfth Night*, and *The Tempest*. (4 credits)

LIT 339 Renaissance Literature: Literature's Rebirth of Knowledge — Beginning in Italy with Petrarch and Completing Its Journey in England with John Milton

The Renaissance was the re-emergence of dynamic social and intellectual activity in the Western world. It marked one of the most vibrant literary, dramatic, and poetic periods in history. Its writers searched for fundamental principles and orderly poetic structures in accord with Natural Law to assist in the full development of human life. Beginning with Petrarch, this course examines some of the greatest Renaissance writers of the sixteenth and early seventeenth centuries: Wyatt, Spenser, Sidney, Donne, Traherne, Herbert, Vaughn, Marvell, and Milton. Also included are readings from some of the major Renaissance philosophers, courtiers, and scientists. (4 credits)

LIT 341 Eighteenth-Century Literature: The Augustan Age of Pope, Swift, and Dryden — Aspiring to a Life in Perfect Harmony and Balance

This course covers the literature of the Augustan Age, the Restoration, and the Age of Johnson, and considers the period's emphasis on feelings and rational thought seen in the

novel and in the intellectual tenor of the time. Writers include Dryden, Pope, Swift, Defoe, Richardson, Fielding, Burney, Samuel Johnson, and Jane Austen. (4 credits)

LIT 342 The Eighteenth-Century Novel: Narrative Fiction, the Dominant Literary Form for Two Centuries — From Defoe to Austen

Like the Renaissance writers before them, eighteenth-century sages saw the spiritual power of nature residing in an orderly universe. They sought to tap that power through their attempts to write about it. The novel, the ultimate fictional statement about universal order, emerged from the diverse social, economic, and political forces of the eighteenth century. This course examines the rise of the novel through three different activities: (1) reading novels from Defoe to Austen, (2) studying the cultural milieu of the eighteenth century, and (3) formulating a theory of the novel and its applications. (4 credits)

LIT 344 Literature of the Romantic Period

This course examines the nineteenth-century Romantic Movement and its escape from the limitations of eighteenth-century rationalism through an emphasis on the divine creative power of the imagination, an exalted perception of poetry and the poet, a sympathy for social renewal, a distrust of industrialization and urbanization, and a rediscovery of the transcendent. Writers include Blake, Wordsworth, Coleridge, Byron, Percy and Mary Shelley, and Keats. (4 credits)

LIT 347 Victorian Literature: The Attempt to Purify Social Consciousness, Beginning with Romantic Idealism — Tennyson, Eliot, and Thackeray

Victorian literary style reflects a period of transition from the Romantic to the Modern through a blending of profound subjective experience with an awakened consciousness of rapid social change. We will read works by Charlotte Bronte, Carlyle, Tennyson, Arnold, Dickens, George Eliot, the Brownings, Hopkins, and others. (4 credits)

LIT 348 Twentieth-Century British Literature

“Make it New!” was the clarion cry at the turn of the twentieth century of a whole generation of writers. Poets, novelists, and dramatists all wanted to break with a past they saw as corrupt and outdated. Therefore, everything for them concerning content and form was up for grabs. These explorers of the imagination began to investigate the previously uncharted dimensions of linguistic possibilities. One of their first choices was to take the attention of their audiences within. Modern European writers in all genres developed new literary techniques to express the deeper realities of consciousness at the basis of thought and human behavior. Combating the forces of urbanization, isolation, industrialization, and the decline of religion, such modern novelists as Forster, Woolf, Lawrence, and Joyce, and such poets as the French Symbolists, Yeats, Eliot, Thomas, and Auden, took refuge in a transcendental vision of life. (4 credits)

LIT 349 Short Stories from One World

We will read selections of short stories from around the world in this course, focusing on seven geographical units: Africa, Middle East, Asia, Australia and Oceania, Europe, Latin America, and North America. Some of the authors we will read are Raymond Carver, Flannery O'Connor, Kafka, Naguib Mahfouz, Virginia Woolf, James Joyce, Chinua Achebe, Isabelle Allende, and David Malouf. The rich diversity of their stories, representing a variety of world cultures, will give us an entry into the human experience in our own and other cultural domains and provide us with new insights. We will study the stories founded on the underlying motifs of "the condition of the individual," "families and communities," and "gender." While we analyze how each story handles one or more of these motifs, we will also think thematically about the quest for "Sat-chit-ananda: Absolute Bliss Consciousness," and we will study the ways in which this quest for unbounded Bliss takes different forms from story to story. (4 credits)

LIT 350 American Transcendentalism: Self-Determinism and Self-Actualization — The Self as the Primary Theme in Emerson, Thoreau, Whitman, and Dickinson

Heeding the call of Ralph Waldo Emerson to create a truly American literature, American writers explored literary and cultural themes that have originated since Columbus first set foot on this continent: the American Eden, the ideal society, the perfectibility of humanity, Self-reliance, and the individual search for Self. Writers we will consider include Poe, Hawthorne, Melville, Emerson, Thoreau, Whitman, and Dickinson. (4 credits)

LIT 351 Modern American Literature: Transporting Eastern Transcendentalism to the Contemporary World — Eliot, Stevens, Fitzgerald, Hemingway, and Faulkner

Reacting to the prosaic objectivism of the realist movement, the decline of Western spirituality, and the moral excess of the industrial revolution and European imperialism, a new movement in the arts called Modernism attempted to take the individual back to the spiritual source of the Transcendentalists and its Oriental transcendental roots. Leaders in this movement included Fitzgerald, Hemingway, Faulkner, Steinbeck, and Cather (in fiction), and Frost, Eliot, Williams, Stevens, Moore, and Hughes (in poetry). (4 credits)

LIT 354 Modern American Novel

Perhaps no other event in the 20th Century shaped the arts as much as World War I, which ushered in a period of intense scrutiny of all the old assumptions and attempted to redefine life in the wake of global devastation. In this course, "modern" refers to novels written during or related to the Modern Period, which stretched between the two world wars. The chief American novelists of this period were Fitzgerald, Hemingway, Faulkner, Steinbeck, Willa Cather, and perhaps, Henry James who appeared a little earlier, but whose realism helped pave the way for the modern novel. We will read several novels

and a couple of shorter works, or novellas, from one of America's greatest literary periods. (4 credits)

LIT 355 Asian Literature: The Spiritual Literature of the Far East, from the Tao of Lao Tsu Forward

In this course, students widen their understanding of the streams of creative expression beyond what has been produced in Western cultures. Emphasis will be on those writers and those texts that possess a good understanding of the work of spirituality. Works to be explored may include Lao Tsu's *Tao de Ching*, the writings of Chuang Tze, the Confucian Odes, T'ang poetry, the poetry of Kabir and Tagore, Rumi, and Hafiz, and the fiction of Mishima, Kawabata, and Narayan. (4 credits)

LIT 356 Contemporary Fiction

Contemporary fiction writers are the classics of tomorrow. In these days of multimedia, "fiction" could include films, videos, graphic novels, collages, and other visual media containing a fictional story line. In this course, we will read two contemporary novels by authors such as Barbara Kingsolver, Leslie Marmon Silko, R.K. Narayan, Nick Hornby, and Kate Atkinson. We will also read a number of short stories by writers like T.C. Boyle, Alice Munro, and George Saunders and watch recent films of literary quality. Students will write one essay on any author or filmmaker studied in this class, prepare an oral report, including a visual such as a poster or PowerPoint presentation, and submit a creative work. This could be a short story or something visual with a fictional narrative such as a video, a short animation, graphic short story, etc. Students may include a Maharishi Vedic Science component in their analytical essay or create a Main Points Chart to accompany their oral presentation or final project. (4 credits)

LIT 357 The Hero in Literature

This course will explore the idea of the hero from antiquity to the present. The hero is a larger than life character whose actions affect the fate of a large community for good, or if a tragic hero, for ill. The hero's behavior (see Arjuna for example) is a model for the ordinary individual. One of the great debates is whether the hero can even exist in the modern world. Among the texts and themes we will follow are: The Odyssey: The Classical Hero; Beowulf: The Germanic Hero; Gawain and the Green Knight: The Medieval Hero; Siddhartha: The Spiritual Hero; and The Bean Trees: The Feminine Hero. (4 credits)

LIT 359 The Short Story

A short story contains all the elements of the novel in micro form and because it is so compact is an ideal arena for studying literature. In this course, we will study some of the world's greatest short story writers beginning with Romantics Washington Irving, Edgar

Allan Poe, and Nathaniel Hawthorne, then moving to later, more realistic writers such as Guy de Maupassant, Anton Chekhov, Sarah Orne Jewett, and Henry James. Afterward, we will read works by such modernist writers as James Joyce, D.H. Lawrence, E.M. Forster, William Faulkner, Ernest Hemingway, and Flannery O'Connor, finishing up with contemporary writers including Alice Munro, John Updike, and Leslie Marmon Silko. Students will write a short analytical essay on one of the writers studied in the course and will write a short story as the final project. Students may include a Maharishi Vedic Science component in their analytical essay or create a Main Points Chart to accompany their final project. (4 credits)

LIT 360 Poetry From Speech to Silence: Exploring the Subtleties of Language in Form and Content

This course focuses on contemporary poetry with the aim of awakening students' awareness to the stylistic techniques that express different visions of wholeness. Poets to be read may include Theodore Roethke, Denise Levertov, James Wright, Gary Snyder, Robert Bly, Richard Wilbur, Elizabeth Bishop, A.R. Ammons, Galway Kinnell, W.S. Merwin, and Jory Graham. (4 credits)

LIT 361 The Novel: The Flow of Consciousness in Form and Content — The Interaction of Action and Character, Form, and Content in Novelists from Cervantes to Toni Morrison

The novel in the last two centuries has become the literary form of choice. It reigns supreme in conveying the depth, experience, and great complexity of character. Born in the eighteenth century when long narratives — including epics, fables, romances, and picaresque tales — were losing their vitality, the novel became literature's torch bearer: the primary literary mode for depicting life. This course examines the history, techniques, and forms of the novel, from social realism to meta-fiction, and may include novels from any given period from the eighteenth century onward. (4 credits)

LIT 363 The Art of Film

This course emphasizes film technique, including cinematography, camera angles, and *mise en scene*. It takes the student out of the realm of the Saturday night "movie" and into the world of film as a major art form. Our primary texts in this course will be the films themselves, including the masterworks of some of the world's finest directors. Some of the films that we may watch include *Wild Strawberries*, *8 1/2*, *Citizen Kane*, *North by Northwest*, *Annie Hall*, and *Run Lola Run*. Course requirements include the writing of film reviews and the analysis of a key scene from a film we will have viewed. (\$10 lab fee) (4 credits)

LIT 364 The Science Fiction Film

The Science Fiction Film introduces students to some of the best science fiction films ever made. It will be part historical, beginning with *Frankenstein* from the 1930s and including films on up to the present. Part thematic, as we look into some of the broad sci-fi themes, such as what it is to be human. And part technical: we'll analyze what makes a good sci-fi film and write a film review of a sci-fi film not shown in class. Some of the subgenres include space operas, alien films, B movies, visionary films, cautionary films, and humor. Students will write a scene for a sci-fi film, will give an oral presentation on a science-fiction film, and show a clip. We will watch such films as *Frankenstein*, *The Day the Earth Stood Still*, *On the Beach*, *2001: A Space Odyssey*, *Soylent Green*, *Star Wars*, *Close Encounters of the Third Kind*, *E.T.*, *Starman*, *Tron*, *Sleeper*, *Matrix*, and *Minority Report*. Plus, we will watch clips from a number of other fine sci-fi films, such as *Metropolis*, *Blade Runner*, and *Repo Man*. (4 credits)

LIT 365 Evolution of Film: From the Lumiere Brothers to Kurosawa — Honoring the Tradition of Film Art

This film survey traces the evolution of primarily American and European cinema from the early days of Griffith and Eisenstein through the twentieth and into the twenty-first century. It includes examples of history-shaping movements such as Soviet formalism, German expressionism, French realism, Italian Neo-realism, film noir, surrealism, and *nouvelle vague*. As in LIT 363, we will watch a selection of some of the finest “world masterpieces on film.” (4 credits)

LIT 366 The Peace Film: The Imagery of World Peace in Great Films and Enlightened Filmmakers

The Peace Film course explores the many forms of peace contemplated throughout history and depicted in the modern film. Its foundation and inspiration is Maharishi's vision of world peace that has led to the Peace Government and the establishment of Maharishi Peace Palaces. In this course, we will watch 11 films, including such classics as *Yellow Submarine*, *Grand Illusion*, and *The Magic Flute* as well as more recent efforts. Students will analyze films to see how peace is perceived and visualized in the international cinema community. Besides the films themselves, the primary text for the course is Robert Oates's *Permanent Peace*, which examines how peace can be achieved individually and globally. (4 credits)

LIT 367 Modern European Drama: From Realism to Expressionism — Modern, Individualized Forms and Ancient, Transcendental Ideals

Led by such dramatic innovators as Ibsen, Strindberg, Chekhov, Shaw, Pirandello, and Brecht, drama began to emerge from a century of mediocrity. In the late nineteenth century these dramatists pioneered a dramatic revolution that expressed itself in such

forms as realism, naturalism, impressionism, expressionism, surrealism, and the theater of the absurd. All of these figures and the movements they spawned will be examined in this course along with the work of other influential dramatists such as Eliot, Yeats, and Shaffer. (4 credits)

LIT 369 Comparative Drama: Translating Greek Spiritual Drama to the Twentieth-Century Stage — from Aeschylus to Tennessee Williams

All Western drama begins with the Greeks, specifically the four titans of Athens' Golden Age: Aeschylus, Sophocles, Euripides, and Aristophanes. In the festivals to Dionysus these four dramatists developed the theatrical concepts of Tragedy and Comedy and helped shape our present view of humanity. In America, some 24 centuries later, Eugene O'Neill gave shape to the modern theater. Much of what O'Neill created was strongly influenced by the Greeks. The American drama that followed O'Neill, Tennessee Williams, Arthur Miller, Beth Henley and others, labored directly under O'Neill's influence and indirectly under that of the Greek masters. (4 credits)

LIT 370 Literature and the Environment: Re-Enlivening Natural Law in Collective Consciousness — from Thoreau to Barbara Kingsolver

Nature and the environment has become the most celebrated cause of the last few decades, giving rise to a literature of its own. In this course, we will begin first with Maharishi's vision of Nature and Natural Law, then read some traditional naturalists such as Emerson and Thoreau, and finally move to a variety of modern environmentalists. Our primary text will be the *Norton Book of Nature Writing*. In our reading we will study the philosophical, historical, and cultural approaches to the environment that America has inherited. Students will also read an extra text on nature to present to the class and keep a nature journal to discover what Mitchell Thomashow calls our "ecological identity." (4 credits)

LIT 371 The Lord of the Rings

In the first half of the twentieth century, J.R.R. Tolkien, an Oxford Medieval and Linguistics Professor, wrote one of the great epics of modern times. *The Lord of the Rings* has become a literary phenomenon, a critical success, a cult classic, and an enormously popular novel sequence that has never fallen out of favor. Moreover, it has spawned a subsidiary industry that includes, films, TV productions, games, toys, and LOR art. *The Lord of the Rings* has emerged as the quintessential fantasy/myth to which all modern myths pay homage, an archetypal tale that speaks to the heart of human beings on the very meaning and purpose of life. In this course, we will read the trilogy: *The Fellowship of the Ring*, *The Two Towers*, and *The Return of the King*. We will also consult the prequels to the trilogy—*The Silmarillion* and *The Hobbit*. When appropriate, we will look at scenes from Peter Jackson's famous film sequence as well. (4 credits)

LIT 372 Media and Literature

In the age we live in, the media constructs and reconstructs the world we know. It is so pervasive that virtually no one on this planet is free from its influence, be it good or bad. At the basis of media is language, the first level of communication. Language forms itself into texts — written, visual, and audio texts — and texts are the interest of literature. In this course, we will read a variety of texts that deal directly and indirectly with media as we explore its severe limitations as well as its possibilities to help bring about a worldwide transformation. One literary figure commenting on the relationship between literature and the media said, “Literature is news that stays news.” — Ezra Pound. (4 credits)

LIT 373 Music and Literature

Literature, as the “flow of letters” (Maharishi), and music as the flow of sound and silence, expresses the flow of life and its fullness. In this course, we will study from various angles the connections between musical and literary forms. We will read literary works that have inspired musical compositions which, in turn, have inspired other art forms like Richard Strauss’ tone poem based on Nietzsche’s *Thus Spoke Zarathustra* and adapted by Stanley Kubrick in *2001: A Space Odyssey*, or Peter Shaffer’s play about Mozart rendered in the film *Amadeus*, or George Bernard Shaw’s *Pygmalion* transformed into the musical *My Fair Lady*. While we read and think about connections among literature, poetry, music, and consciousness, we will listen to a wide range of musical pieces, from classical, to modern, to contemporary. We will also listen to the hymns of Sama and Rk Veda that convey the depth of silence from which poetry and music emerge and flow into life. (4 credits)

LIT 374 The Great American Road Trip

Does the open road beckon you? People have been traveling the highways of America for more than a century. Before highways and road even existed, people drove their cars across the country when the only surfaces available were the wide, open fields. We'll read road literature ranging from the snarky comments of Iowa traveler Bill Bryson to the more lyrical passages of William Least Heat Moon. We'll follow women travelers as well as men and may even dip into a trip outside the U.S. (across Fiji). We'll read some great essays, watch some good road films, and explore some interesting travel blogs and sites. We may even take our own road trip so we can write about. (4 credits)

LIT 377 The Japanese Novel

By mid 19th century, Japan had shed its most treasured tradition, the way of the Samurai, and wholeheartedly embraced all things Western. The result of such rapid transformation has had profound effects on the Japanese culture. In this course, students will read postwar novelists Yukio Mishima and Yasunari Kawabata, both Nobel laureates, and

modern Japanese novelist Haruki Murakami, not only considered Japan's finest novelist, but possibly the "greatest novelist in the world" according to some. In addition to reading the Japanese novels (in translation), students will watch several Japanese films, make an oral presentation, take an exam, and write a critical analysis of a Japanese novel. (4 credits)

LIT 378 Tolkien: The Early Works

This course is a companion to LIT 371 *The Lord of the Rings*. In this course, we will focus on two primary works—*The Hobbit* and *The Silmarillion*. Although *The Silmarillion* was published posthumously, most of it was written before *The Hobbit* and *The Lord of the Rings*. We will also read some of Tolkien's shorter fairytales, such as *Farmer Giles of Ham* and *Smith of Wootton Major*. We will also examine Tolkien's famous essay on what makes a Fairy Story. Other possibilities are Tolkien's translation of the marvelous Medieval fantasy *Gawain and the Green Knight* and his essay on *Beowulf: The Monsters and the Critics* that transformed *Beowulf* criticism. (4 credits)

LIT 379 History of English Language

This is a two-week course for those students pursuing a degree in education with a focus in literature. The course will be primarily self-directed with the following components: An outline of Albert C. Baugh's standard work—*A History of the English Language*, a summary of the video *Mother Tongue* from the series *The Story of English*, and a presentation by the student on how the English language developed from its inception to the present. (2 credits)

LIT 380 Seminar on Special Topics

Periodically, seminars on special topics are offered by visiting professors or by resident faculty. (2–4 credits — may be repeated for credit)

LIT 497 Senior Thesis: Demonstrating Skill in Action

A one block guided study for students who want to spend a month writing their exit paper for a B.A. in Literature or a B.A. in Literature with a Concentration in Writing.

Guidelines for the paper will be established between the instructor and student. (4 credits)

Prerequisite: consent of instructor

LIT 498 Internship in Literature

This course is designed for the practical application of the literary skills — writing, speaking, research, analysis, and synthesis — students have been acquiring in the major. Advanced students find a work situation with community professionals to acquire greater applied knowledge in their field of interest. A defined project is set up and evaluated by both a workplace supervisor and a faculty advisor. (4–12 credits) *Prerequisite:* consent of the Department faculty. NOTE: The purpose of this course is as an addition to the

requirements of the major; therefore, the credits from this course cannot be included as part of the course work required for the major.

LIT 499 Directed Study

(variable credits) *Prerequisite:* consent of Department faculty

Writing Courses

WTG 191 College Composition 1: Clear and Graceful Prose — Coherent Minds Expressing Themselves through Traditional Writing Forms

Students in Composition 1 begin to refine their thinking, writing, and grammatical skills founded on their experiences of Being. They integrate two fundamental characteristics of writing: the ongoing process of Self-discovery, and the creation of a finished work. They develop greater facilities with the writing process while strengthening foundational skills. Students read and discuss narrative models to locate the intimate connections between reading and writing. (4 credits)

WTG 192 College Composition 2: Exploring Academic Writing — Knowledge as the Basis of Successful Communication and Self-Expression

Composition 2 develops the student's ability to use language for a variety of purposes, subjects, and audiences. It focuses on both exposition and persuasion to strengthen those skills that will assist the student in succeeding academically. In this course, we read and discuss a range of prose models that reflect the diversity of thinking and writing across the disciplines. (4 credits) *Prerequisite:* WTG 191 or appropriate assessment

WTG 201 Poetry and Transcendence: Tracking the Path of Transcending

Poetry can say the unsayable and touch upon the intangible. This is why, throughout the ages, mystics used the language of poetry to express their mysterious longing and the exaltation of their consciousness. This course focuses on the greatest mystical poets of all time: The renga masters of the Oriental traditions; Middle-Eastern mystics such as Rumi, Hafiz, Lalla, Kabir, and Mirabai; Christian mystics such as Hadewijch, St. John of the Cross, and Hildegard von Bingen; American mystics such as Walt Whitman and Emily Dickinson; plus a range of modern and contemporary poets whose work explores transcendence in subject or in form: Rainer Maria Rilke, Pablo Neruda, Octavio Paz, Thomas Tranströmer, A. R. Ammons, Charles Wright, Tony Hoagland, Pattiann Rogers, and Mary Oliver. Students also create a portfolio of their own transcendental poetry and learn to master traditional forms such as the ghazal, pantoum, villanelle, renga, tanka, and chant. This course particularly studies the techniques poets use to evoke transcendental experience: sound devices, repetition, figurative speech, line break, and the relationship between words and white space. In this course, students learn to "see into the life of

things," as Wordsworth put it, "with an eye made quiet by the power / of harmony." (4 credits) *Prerequisite:* WTG 192 or consent of instructor

WTG 202 Fiction Writing 1: Emulating Nature's Own Creative Process — Creating, Developing, Structuring, and Refining Works of Short Narrative Fiction
Fiction writing is among the most satisfying forms of artistic and personal expression. A fiction writer writes from the heart as well as the mind, but good fiction is much more than "disguised autobiography." To excel at this craft, students need to learn the arts of creating plot and character, fashion an appropriate point-of-view, and control style and tone. For inspiration and guidance we will read some of the world's finest writers of fiction. (4 credits) *Prerequisite:* WTG 192 or consent of instructor

WTG 210 Poetry Writing: Tracking the Path of Transcending — Expressing the Subtlest Fluctuations of Heart and Mind
Students in this course read and study model poems to learn the technical building blocks of poetry: imagery, sound effects, rhyme, rhythm, and form. The class members then write their own poems in either free verse or such traditional forms as the sonnet, blank verse, ballad, and villanelle. (4 credits) *Prerequisite:* WTG 192 or consent of instructor

WTG 301 Nonfiction Workshop 1: From a Single Form — The Literary Essay — Arise Infinite Possibilities of Form and Content
Creative writing is often mistakenly associated solely with fiction and poetry, but some of the best creative writing is found in nonfiction. Whatever writers put their attention on is filled with their own originality. In these courses, students read beautiful and moving selections of nonfiction prose and examine them for their grace, clarity, and effectiveness. Students then write their own nonfiction projects that could include essays, interviews, reviews, and other forms. (4 credits)

WTG 302 Nonfiction Workshop 2
Creative writing is often mistakenly associated solely with fiction and poetry, but some of the best creative writing is found in nonfiction. Whatever writers put their attention on is filled with their own originality. In these courses, students read beautiful and moving selections of nonfiction prose and examine them for their grace, clarity, and effectiveness. Students then write their own nonfiction projects that could include essays, interviews, reviews, and other forms. (4 credits)

WTG 312 The Persuasive Essay: Balancing Logical Reasoning and Fullness of Emotion to Move Our Audience
Among the most useful forms of writing is the persuasive essay. To write so convincingly and with such authority that your reader can't help but respond favorably to your viewpoint is eminently valuable and satisfying. The hallmark of the persuasive essay is

impeccable logic and sound reasoning. In this course, students examine classical and contemporary arguments as models for their own persuasive essays. Topics include inductive and deductive logic, audience consideration, the evaluation of assumptions, counterarguments, fallacious reasoning, and the role of emotions in persuasion. (4 credits)

WTG 313 Writing and Reading the Short Story: Exploring the Dynamics between Wholeness and Point

Edgar Allen Poe once stated that everything in a short story works toward a “single effect.” Economy and precision of language make the short story the perfect narrative form. In this course, we will read and study intriguing stories such as Gabriel Garcia Marquez’s “The Very Old Man with Enormous Wings” and Eudora Welty’s “Why I Live at the P.O.” as models for short fiction we will write. We will also look closely at elements of fiction: character, structure, point of view, imagery, and figurative language as building blocks for our own stories. Students will write three short stories and workshop those stories in class. (4 credits) *Prerequisite:* WTG 192 or consent of instructor

WTG 314 Fiction Writing 2: The Divine at Every Point

This course advances techniques learned in Fiction Writing 1. Fiction writing is among the most satisfying forms of artistic and personal expression. A fiction writer writes from the heart as well as the mind, but good fiction is much more than “disguised autobiography.” To excel at this craft, students need to learn the arts of creating plot and character, fashion an appropriate point-of-view, and control style and tone. For inspiration and guidance we will read some of the world’s finest writers of fiction. (4 credits) *Prerequisite:* WTG 192 or consent of instructor

WTG 315 Writing Literary Nonfiction: Expressing the Truth that Transcends Facts with the Power, Grace, and Insight of Fiction

During the second half of the twentieth century, creative nonfiction — called “the new literature” — has steadily grown in popularity. Reading such writers as Tom Wolfe, Peter Mathiessen, and John McPhee, students discover the potential of nonfiction to elicit an aesthetic response equal to that of the novel. In this course, students learn to combine techniques of journalism and fiction in writing their own creative nonfiction. (4 credits)

WTG 320 The Personal Essay: Curving back Upon My Own Nature, I Create Again and Again

The personal essay celebrates heart and mind, exploring age-old questions about the state of being human. In this course, students learn about the first examples of brief prose discussion in Oriental and classical Literature (Sei Shonagon, Kenko), then explore the origins of the modern essay tradition in the European Renaissance with the work of

Michel de Montaigne. Students learn about the range and freedom of this brief "formless form" by acquainting themselves with a wide range of modern and contemporary masters: Mark Twain, Virginia Woolf, Zora Neale Hurston, Jorge Luis Borges, Flannery O'Connor, Annie Dillard, David Sedaris, Amy Tan, Lewis Thomas, Mark Spragg and Barbara Kingsolver, etc. Essays discussed in class are analyzed in terms of craft and technique. During this block students keep a daily journal in which they record observations, insights, reflections, responses, memories, and research. Students also create a substantial portfolio of at least three personal essays, learning about prewriting, drafting and revision in the process. Students are encouraged to find a natural, authentic personal voice that is intimate, yet not self-indulgent. In the specificity of personal reflection, students touch upon the universal power of human experience. (4 credits)
Prerequisite: WTG 192 or consent of instructor

WTG 321 Blogging and Reflective Writing

Want to speak to the world and feel you need more than the Comment space on Facebook allows? Blogging can offer a platform from which to share your thoughts with a larger audience. This course will explain how to set up your own blog site and help you produce your first postings for your site. Drawing on our own feelings, opinions, memories, and insights, we'll use reflective writing to channel those experiences into expressive prose to share with our readers. Then we'll post our thoughts to share with the world. (4 credits)

WTG 322 Writing the Personal Memoir: Knowing the Self

During this course, students explore various forms of memoir: childhood memoir, graphic memoir (memoir in cartoon form or illustrated memoir), travel or journey memoir, memoirs of people from other cultures, eyewitness memoir, mosaic memoir, etc. Students read examples by an international selection of famous authors such as Frank McCourt, Janet Frame, Azar Nafisi, Annie Dillard, Helen Nearing and Elizabeth Gilbert, and also work by lesser known authors such as Mark Spragg, Yang Erche Namu, and Etty Hillesum. Students also create their own portfolios using techniques from fiction and poetry to create story and to explore objective and subjective life experience in depth. Ultimately, students learn to stand back and experience their life stories twice, "in the moment and in retrospection," as Anais Nin said. In this way, students come to more deeply know their own Self on every level. (4 credits) *Prerequisite:* WTG 192 or consent of instructor

WTG 323 Memoir and Transcendence: Knowing the Self

During this course, students explore memoir with a focus on the theme of transcendence—transcendental moments, spiritual quest, stories about overcoming obstacles and transformation, explorations of the uncharted territories of consciousness. Memoirs can take various forms: childhood experience, graphic (cartoon or illustrated)

memoir, travelogue, exploration of other cultures, eyewitness account, mosaic, etc. Students read examples by an international selection of memoirists such as Annie Dillard, Henry David Thoreau, Greg Mortenson, Ann Patchett, Helen Nearing, Azar Nafisi, Mark Spragg, Yang Erche Namu, and Etty Hillesum. Textbooks are *Eat, Pray, Love* by Elizabeth Gilbert and *Inventing the Truth*, edited by William Zinsser. Students also create their own portfolios of transcendental memoir using techniques from fiction and poetry to create story or mosaic, exploring objective and subjective life experience in depth. Ultimately, students learn to stand back and experience their transcendental life stories and their own spiritual quest “twice, in the moment and in retrospection,” as Anais Nin put it. In this way, students have an opportunity to witness and yet more deeply know their own Self on every level. (4 credits) *Prerequisite:* WTG 192 or consent of instructor.

WTG 332 Prose Style: Conveying Universal Ideas through a Highly Personalized and Carefully Wrought Voice

Students acquaint themselves with a wide range of writing styles as they investigate their own style of writing. Examining the works of various authors, students fine-tune their understanding of the mechanics of English expression and develop their ability to use sentence structure, diction, and punctuation as the sophisticated tools they have the potential to be. (4 credits)

WTG 340 Writers on Writing: Learning from the Great Tradition of Literary Masters — The Nature and Craft of Writing

The nonfiction writing projects in this course are designed to help students see themselves as legitimate writers. Students examine what celebrated writers, from journalists to novelists, from children’s authors to essayists, have said about their profession. Their insights into the writing craft provide both inspiration and direction. Their explanation of technical matters are then put into practice in the students’ own work. (4 credits)

WTG 342 Writing for Young People

Writing for the young can be as rewarding as writing for adults and just as challenging. Children are becoming more sophisticated at younger ages and enjoy reading books at their intelligence level. Students in this class will learn to find the appropriate subject matter, language, and storyline for the age group they are addressing. Ostensibly the class will study how to write for adolescents, but the course is flexible enough to include writing for other age groups as well. (4 credits)

WTG 345 Nature Writing

The greatest issue of our time is the preservation of the world we inhabit for our own and future generations. As a result, this topic has become one of the most engaging of today’s

writers, evolving into its own genre, its own literary type. The fathers of this genre are, of course, Ralph Waldo Emerson and Henry David Thoreau who passed the torch to writers such as John Muir, the founder of the Sierra Club, and Rachel Carson who penned the famous ecological work *Silent Spring*. In more recent years it has been carried by writers like Annie Dillard, Farley Mowat, John McPhee, Barbara Kingsolver, and Barry Lopez to name but a few. The one constant in all forms of Nature Writing is an abiding love of Nature, but beyond that it can take many forms. In this course, we will read a number of different kinds of essays and we will write three of our own that may include an encounter with a wild animal, an ecological essay, and a personal essay about a transcendental communion with Nature. (4 credits) *Prerequisite:* WTG 191

WTG 350 Advanced Creative Writing: Creating Harmony of Sound and Coherence of Meaning

Maharishi says, “writers start with what the eyes see, the ears hear and the hands feel, then travel into space and time to explore the beyond.” Following this prescription, this course offers advanced students the opportunity to deepen their knowledge and hone their writing skills by focusing on a body of their own work in poetry or fiction. Students will acquaint themselves with authors, write personal responses to books and articles, attend readings, and watch videotaped interviews of famous writers. Course participants will also workshop their manuscripts with their classmates and make an extensive presentation of their work. The final outcome will be a submission for publication. (4 credits) *Prerequisite:* WTG 192 or consent of instructor

WTG 360 Writing and Photography

This course teaches the basics of digital photography and how to write about it. Students learn how to adjust the digital “negative” in an image-editing program such as Adobe Photoshop. Students keep a daily journal of their photographic experiences, learn to photograph and write about the environment, and produce a photo essay on their favorite topic. For daily printing needs, students use online sources, such as Snapfish or Shutterfly. The course also includes at least one field trip and a variety of creative photographic assignments. For the final portfolio, students select their best photographs to enlarge and learn how to print and mat them. Requirements: a \$25 fee for materials and at least a 7-megapixel camera with zoom lens and manual controls; this means the ability to manually adjust shutter speed and aperture size. (4 credits)

WTG 364 Screenwriting: Expanding Awareness — Translating the Language of Written Communication into the Language of Film and the World of the Visual

In this course, students will create an actual screenplay. More than just learning the form of screenwriting, students will write with the full intention of producing a filmable script. We will study a number of models, including films, film clips, and a published

screenplay. To help ensure success, before beginning to write the screenplay students will compose a premise, a structure-step, and a scene outline. (4 credits)

WTG 370 Writing for Fun and Profit: Niche Markets

This is a course for students who would like experience in professional writing for niche publishing markets, such as educational testing. We'll explore a variety of markets and in detail: the educational testing market. For that market, we'll focus on the compactness and concision necessary for writing test passages, the necessity for selecting topics appropriate for testing and recognizing sensitivity issues, mastering editing skills necessary to create grammatical and mechanical correctness, as well developing an eye for topics that will appeal to the appropriate grade level. The course will include a professional workshop with a testing development specialist, the possibility of a follow-up internship with American College Testing in Iowa City, and freelance writing opportunities. (4 credits)

WTG 373 The Graphic Novel

The graphic novel, a genre of literature combining writing and art, has become increasingly popular in the past decades. The term "graphic novel" broadly refers to any fictional or non-fictional story that is told by means of both writing and illustration—often, though not necessarily, in cartoon form. In this class, students will read selections from various award-winning graphic novels and illustrated memoirs, among them *Persepolis* by Marjane Sarpati, *Blankets* by Craig Thompson, *Ghost World* by Daniel Clowes, *Principles of Uncertainty* by Maira Kalman, and the Pulitzer Prize winning *Maus* by Art Spiegelman. Students are expected to write and illustrate their own graphic novel during the class. In the process, they will hone all techniques relevant to this genre: Writing-wise, the focus will be on dialogue, scene, plot, pacing, character development, selection of detail, language, voice, and editing. Artistically, the focus will be on choice of materials, drawing technique, page layout, the relationship between positive and negative space, color, and shape. (4 credits) *Prerequisite:* WTG 192

WTG 399 Directed Study

(variable credits) *Prerequisite:* consent of the Department faculty

WTG 410 Travel Writing: Discovering the Universal in the Particular — Conveying the Sense of Feeling at Home in Unique Places of the World

From Mark Twain to John Steinbeck, many of the world's best writers have been drawn to travel writing. By analyzing the work of great travel writers and through in-class writing workshops, students become familiar with techniques of travel writing. Highlighting the course are three day-trips to nearby tourist destinations, during which students learn to research articles and record their personal observations in a travel

journal. The course culminates in the writing of a personal travel essay for publication. How to write a query letter and the top online markets for travel articles will also be covered. (4 credits) *Prerequisite:* WTG 192 or consent of instructor

Language Courses

LGR 101 Introductory German

In Introductory German, a course for beginners in the German language, we will learn German by using the interactive and communicative approach to language learning. That means, embedding German grammar in communication and actually being able to use the language — not only understand but also produce it in speech and writing from our first meeting. We will talk in German, listen to German music, and read German poetry and German children's stories. Students will be able to carry on a daily conversation in German at the end of the block. (4 credits)

COLLEGE OF MAHARISHI VEDIC SCIENCE

FACULTY

- William Sands, Ph.D., Associate Professor of Maharishi Vedic Science and Sanskrit, Dean of the College of Maharishi Vedic Science
- Fred Travis, Ph.D., Professor of Maharishi Vedic Science, Chair of the Department of Maharishi Vedic Science, Dean of the Graduate School, Director of the Center for Brain, Consciousness, and Cognition
- Thomas Egenes, Ph.D., Associate Professor of Maharishi Vedic Science and Sanskrit
- Evan Finkelstein, Ph.D., Associate Professor of Maharishi Vedic Science
- Rod Eason, Ph.D., Assistant Professor of Maharishi Vedic Science, Chair of the Department for the Development of Consciousness
- Peter Freund, Ph.D., Assistant Professor of Maharishi Vedic Science, Director of the Tape Library
- Isabelle Matzkin, M.A., Assistant Professor of Music and Maharishi Vedic Science
- Samuel Boothby, Ed.D., Adjunct Associate Professor of Maharishi Vedic Science, Associate Dean of the College of Arts and Sciences
- Sue Brown, Ph.D., Adjunct Assistant Professor of Maharishi Vedic Science
- Viji Hobbs, Ph.D., Adjunct Assistant Professor of Maharishi Vedic Science
- Patricia Oates, Ph.D., Adjunct Assistant Professor of Maharishi Vedic Science
- Vernon Katz, D.Phil., Visiting Professor of Maharishi Vedic Science and Philosophy, Trustee of Maharishi University of Management

INTRODUCTION

The College of Maharishi Vedic Science provides the systematic knowledge and experience of pure consciousness, *Atma*, the Self of every individual. This unmanifest self-referral field of pure intelligence at the basis of the thinking process is the source of all thought and action. As explained in the Veda and Vedic Literature and confirmed by modern physics, it is the non-changing field of order and intelligence at the basis of the universe — the Unified Field of Natural Law. Maharishi Vedic Science explains how this underlying unity unfolds into the diversity of life and offers practical technologies for reconnecting each individual to the source of order and harmony within. The study of Maharishi Vedic Science develops the full potential of the knower and lays the foundation for complete knowledge of any discipline, while it fosters evolution to higher

states of consciousness and progressive and fulfilling action and accomplishment in life. The College of Maharishi Vedic Science meets its responsibilities in three ways:

- 1) Through the Department of Maharishi Vedic Science, it offers doctoral, master's, and bachelor's degrees and certificates in the Maharishi Vedic Science program and an undergraduate minor in Maharishi Vedic Science.
- 2) Through the Department for the Development of Consciousness, it offers instruction in the Transcendental Meditation and TM-Sidhi programs, and special Maharishi Vedic Science studies programs.
- 3) The College also directly oversees the following courses and programs:
 - The First Year program taken by most bachelor's degree students.
 - The Forest Academy program courses taken by all students each semester, focusing deeply on Maharishi Vedic Science.
 - The Development of Consciousness courses, which include the Transcendental Meditation and TM-Sidhi programs, including Yogic Flying. All students are required to take the Transcendental Meditation program and have the option to take the TM-Sidhi program.

Maharishi Vedic Science

Maharishi Vedic Science is the systematic study, experience, and development of the full range of life, both individual and cosmic. Its principles and technologies are based on the direct experience and understanding of the most vital element in creation — the unbounded field of consciousness that is the inner intelligence at the basis of every individual and the entire universe.

Maharishi Vedic Science provides the practices that allow each student to experience directly the infinite and timeless value of their own Self, unbounded pure consciousness, the simplest form of human awareness. These practices include the Transcendental Meditation and TM-Sidhi programs, including Yogic Flying. The experience of the limitless field of pure consciousness, or pure intelligence, changes one's life positively and dramatically because consciousness is the core of each student.

Maharishi Vedic Science also provides complete knowledge and experience of the sequential evolution of the Veda and Vedic Literature, all the Laws of Nature. It clarifies how these abstract impulses of pure consciousness evolve into their concrete expressions in the human physiology and the cosmic physiology, the universe. Because the Veda and Vedic Literature are the Laws of Nature that govern both human and cosmic life, they are what Maharishi refers to as the blueprint of creation.

Maharaja Adhiraj Rajaraam, Professor Tony Nader, M.D., Ph.D., under Maharishi's guidance, has discovered that human physiology and cosmic physiology are the exact replica of the structures and functions embodied and expressed by the Veda and Vedic Literature. Maharishi Vedic Science makes use of this discovery to unfold the full creative genius, the total cosmic potential, of each student.

Two other Vedic technologies used in our programs for developing the full potential of every student are listening to the Veda and Vedic Literature and reading the Vedic Literature in Sanskrit. Maharishi explains that these technologies align the student's intelligence with the natural flow of Nature's intelligence.

In time, because of the student's developing consciousness, the creativity, energy, and intelligence governing the universe become accessible to and usable by the student. Students effortlessly grow in their natural ability to think and behave from that unbounded level of pure consciousness; they grow in intelligence, creativity, and power, but equally in compassion, kindness, and moral character.

The immense practical value and benefits of being able to live life from its infinite potential are indescribable. Anything becomes possible, even the creation of ideal societies and permanent world peace.

PROGRAMS OFFERED

The Department of Maharishi Vedic Science offers the following programs:

- B.A. in Maharishi Vedic Science
- B.A. in Maharishi Vedic Science for students who are already teachers of the Transcendental Meditation program
- Minor in Maharishi Vedic Science
- M.A. in Maharishi Vedic Science — An 11 -month program—mid-August to July with a winter and spring break—when taken in the standard class schedule (meeting 5 1/2 days per week, 4 weeks per 4-credit course) or a 3-year program when taken on the nonstandard schedule (meeting several times a week, 12 weeks per 4-credit course). Both programs require 44 credits for graduation.

With additional courses, students can add a specialization to the above master's degrees in one of the following areas:

- 1) Specialization in Maharishi Vedic Technologies
- 2) Specialization in Educational Applications of Maharishi Vedic Science

- 3) Specialization in Advanced Maharishi Vedic Science
 - 4) Specialization in Maharishi Consciousness-Based Health Care
 - 5) Specialization in Reading the Vedic Literature
 - 6) Specialization in the Development of Consciousness
- M.A. in Maharishi Vedic Science with a Specialization in the Development of Consciousness — A 3-year degree program that includes nine courses taken along with 3 years of the Creating Coherence Program and a Capstone course. Each class is 12 weeks long, meeting Saturdays.
 - Ph.D. in Maharishi Vedic Science — A 4–6-year program including one year of course work (meeting 5 ½ days per week) followed by a dissertation proposal and research.

SPECIAL FEATURES

- Focus on an ideal daily routine with emphasis on experiencing the Unified Field of Natural Law in twice daily practice of the Transcendental Meditation and TM-Sidhi programs.
- Extensive exposure taped lectures by Maharishi on the Science of Creative Intelligence and Vedic Science.
- Study of the full range of all aspects of the Vedic Literature in light of descriptions by Maharishi and Maharaja Adhiraj Rajaraam, including Veda, Vedānga, Upānga, Upaveda, Itihāsa, Purāna, Smṛiti, Brāhmaṇa, and Pratishakhyā
- Experience with correct pronunciation of Sanskrit and the ability to read Sanskrit, which Maharishi has described as the Language of Nature.
- Exploration of the scientific character of Maharishi's knowledge, including the basic research methods of modern science and its objective verification of Maharishi Vedic Science.
- Investigation of the principal theoretical research tools of Maharishi Vedic Science and the Science of Creative Intelligence, including Unified Field and Richo Akshare Charts.
- Development of communication skills in Maharishi Science of Creative Intelligence and Maharishi Vedic Science with emphasis on writing and speaking skills.

The Bachelor of Arts Degree

- Coverage of all the major themes of the Maharishi Vedic Science program including higher states of consciousness, collective consciousness, Sanskrit and reading the

Vedic Literature in Sanskrit, and also surveys all the Consciousness-Based Technologies offered by Maharishi Vedic Science

- Study of source documents in Maharishi Vedic Science with emphasis on the *Bhagavad Gita The Science of Being and Art of Living, Absolute Theory of Defense, Vedic Knowledge for Everyone, and Celebrating Perfection in Education.*
- Development of writing and speaking skills as students apply Maharishi Vedic Science to the areas of health, education, management, and rehabilitation.
- A one-month integrative writing exercise unifying the various themes of the student's academic experience at Maharishi University of Management.

The Master of Arts Degree

This program gives knowledge and experience of the student's own cosmic nature through Maharishi Vedic Science and its technologies for the development of consciousness. It is offered in two formats: an 11-month 5 ½ day-a-week format and a 3-year evening-and-weekend format. The themes of knowledge include self-referral, the mechanics of creation, Maharishi's *Apaurusheya Bhashya* of Rik Veda, the Veda and Vedic Literature, and Veda in human physiology.

Following the coursework, students can take one year of additional courses in specified areas of Maharishi Vedic Science.

In addition, students learn to apply a number of technologies of Maharishi Vedic Science to culture higher states of consciousness and balanced, full health. The 10-month program includes:

- Systematic study of Maharishi's books and tapes
- Systematic study of the Veda and Vedic Literature and its relation with the structure and functioning of the brain
- Periods of extended Transcendental Meditation and TM-Sidhi practice in each course
- Reading Vedic Literature in the original Devanagari script
- Listening to Vedic recitation each day
- Having a daily routine to promote deep experiences during the Transcendental Meditation and TM-Sidhi programs, including Yogic Flying

The Ph.D. Degree

This program is for those individuals who wish to become professional exponents of Maharishi Vedic Science. Students develop writing and speaking skills, gain a fuller

grasp of principles of Maharishi Vedic Science, and develop a specialization in Maharishi Vedic Science, either in (1) Vedic Literature, (2) Applications of Maharishi Vedic Science, (3) Modern Science and Maharishi Vedic Science, (4) Higher States of Consciousness, or (5) Exploration of the Principles of Maharishi Vedic Science in the Vedic literature.

Undergraduate Certificate in Maharishi Vedic Science

The certificate program allows students to take courses in the Maharishi Vedic Science curriculum before entering the full program of study. It offers the opportunity to take a sample of courses in the Maharishi Vedic Science program. It also assesses students' ability to perform well in an academic setting, which will strengthen their application to the full time program.

Special *Maharishi Vedic Science Studies* Program

This program allows students to earn credit through coursework taken here in Fairfield and in other parts of the world. The purpose of this program is to recognize the academic accomplishments of students who complete the unique courses in Maharishi Vedic Science, described in “Special Maharishi Vedic Science Studies Courses” under “Course Descriptions” for the Department of Maharishi Vedic Science. Non-degree-seeking students who later decide to seek a degree may apply courses successfully completed under the Special Maharishi Vedic Science Studies program toward degree requirements, with the approval of the student's academic advisor. For details about the policies and application procedures for these courses, please contact the Registrar's Office.

Instruction in the *Transcendental Meditation* Technique and the *TM-Sidhi* Program

The Department offers instruction in the practice of the Transcendental Meditation technique (offered separately or as part of the Science and Technology of Consciousness courses STC 108/109 and the Science of Creative Intelligence course FOR 500) and the TM-Sidhi program (DC 329 and DC 330), available for additional cost beyond the regular tuition charges.

DEPARTMENTAL REQUIREMENTS

Entrance Requirements for the Bachelor of Arts Degree in Maharishi Vedic Science

Before entering the major in Maharishi Vedic Science, students must complete (waived for graduates of Maharishi School), MVS 202, PH 101, and WTG 191.

Graduation Requirements for the Bachelor of Arts Degree in Maharishi Vedic Science

To graduate with a B.A. in Maharishi Vedic Science, students must successfully complete all general requirements for the bachelor's degree. (Please refer to "Degree Requirements" in "Academic Policies.") The requirements for the major are 48 credits of coursework as listed below.

40 credits of required courses:

- MVS 102 Sanskrit
- MVS 208 Fundamentals of Maharishi Vedic Science (4 credits)
- MVS 210 Veda and Vedic Literature in Maharishi Vedic Science (4 credits)
- MVS 225 Maharishi Vedic Science and Religion (4 credits)
- MVS 240 EEG, Brain and Enlightenment (4 credits)
- MVS 300 *Science of Being* (4 credits)
- MVS 302 *Bhagavad-Gita*: Chapters 1-6 (4 credits)
- MVS 308 Individual Benefits from the *Transcendental Meditation* Program (4 credits)
- MVS 309 Fundamentals of World Peace (4 credits)
- MVS 391 Senior Capstone Writing and Speaking Project (4 credits)

plus at least 8 credits from one of the following options

OPTION 1 — Reading Vedic Literature

- MVS 321 Reading the Vedic Literature 1
- MVS 322 Reading the Vedic Literature 2
- MVS 323 Reading the Vedic Literature 3
- MVS 324 Reading the Vedic Literature 4
- MVS 342 Health Benefits of Maharishi Gandharva Veda
- PH 260 *Maharishi Self-Pulse* Diagnosis
- PH 262 Diet, Digestion, and Nutrition
- PH 263 Maharishi Yoga Asanas
- BIO 260 Biology I: Living Systems

OPTION 2 — TM Program Teacher Training*

- MVS 490 *Transcendental Meditation* Program Teacher Training
- MVS 491 *Transcendental Meditation* Program Teacher Training — Part 2
- MVS 493 *Transcendental Meditation* Program Teacher Training Program Teaching Internship

OPTION 3 — TM Program Research Internship*

- MVS 497 *Transcendental Meditation* Program Research Internship (14 credits)

*Choosing Option 2 or 3 does not guarantee that students will be admitted into MVS 490, MVS 491, MVS 493, or MVS 497. Students who are not accepted into these courses are encouraged to take one of the other options, especially Option 1 — Reading Vedic Literature. The credits awarded for MVS 490 and MVS 491 are variable.

NOTE: MVS 490, MVS 491, and MVS 493 are generally taken after all other course work for the bachelor's degree has been completed.

Entrance Requirements for the Bachelor of Arts Degree in Maharishi Vedic Science for Teachers of the *Transcendental Meditation* Technique

The B.A. in Maharishi Vedic Science for Teachers of the *Transcendental Meditation* Technique has been designed for those teachers of the Transcendental Meditation technique who have extended experience as professionals in the Transcendental Meditation program prior to enrolling in the B.A. in Maharishi Vedic Science major. To enter this program, students must be eligible for 16 credits for either Teaching Internship (MVS 493) or Research Internship (MVS 497).

Graduation Requirements for the Bachelor of Arts Degree in Maharishi Vedic Science for Teachers of the *Transcendental Meditation* Technique

To graduate with a B.A. in Maharishi Vedic Science for Teachers of the *Transcendental Meditation* Technique, students must successfully complete all requirements for the bachelor's degree. (Please refer to "Degree Requirements" in "Academic Policies.") The requirements for the major are 48 credits of course work as follows:

16 credits from the following:

- MVS 493 *Transcendental Meditation* Program Teacher Training Program Teaching Internship
- MVS 497 *Transcendental Meditation* Program Research Internship

plus up to 32 credits from the following:

- MVS 208 Fundamentals of Maharishi Vedic Science
- MVS 210 Veda and Vedic Literature in Maharishi Vedic Science
- MVS 225 Maharishi Vedic Science and Religion (4 credits)
- MVS 240 EEG, Brain and Enlightenment
- MVS 300 *Science of Being*
- MVS 302 *Bhagavad Gita*: Chapters 1-6
- MVS 308 Individual Benefits from the *Transcendental Meditation* Program
- MVS 309 Fundamentals of World Peace
- MVS 391 Senior Capstone Writing and Speaking Project
- MVS 490 *Transcendental Meditation* Program Teacher Training

- MVS 495 *Transcendental Meditation* Program Governor Training

Requirements for the Minor in Development of Consciousness

To graduate with a minor in Development of Consciousness, students must successfully complete 20 credits of Forest Academy and Development of Consciousness courses.

Requirements for the Minor in Maharishi Vedic Science

To graduate with a minor in Maharishi Vedic Science, students must successfully complete any four (16 credits) courses in Maharishi Vedic Science numbered higher than MVS 200.

Entrance Requirements for a Certificate in Maharishi Vedic Science

Any student with a high school diploma and a GPA of 2.5 is eligible to apply for a Certificate in Maharishi Vedic Science.

Requirements for a Certificate in Maharishi Vedic Science

To receive a certificate in Maharishi Vedic science, students must complete 18 credits. This includes:

- STC 108 (6 credits)
- Any 3 undergraduate MVS courses (12 credits)

Students will also be expected to follow the Development of Consciousness requirements while they are enrolled in the certificate program.

Requirements for the Specialization in Teaching the *Transcendental Meditation* Program

The Specialization in Teaching the *Transcendental Meditation* Program can be added to an undergraduate or graduate student's degree. Undergraduates need to complete 24 credits, and graduate students 8 credits, from the following courses:

- MVS 490 *Transcendental Meditation* Program Teacher Training
- MVS 493 *Transcendental Meditation* Program Teacher Training Program Teaching Internship

MASTER OF ARTS DEGREE IN MAHARISHI VEDIC SCIENCE

Entrance Requirements

For entrance into the M.A. in Maharishi Vedic Science program, students must hold 1) a bachelor's degree or 2) a B.A. equivalency including significant professional standing in

Maharishi Vedic Science. Students entering the standard 10-month program who are not yet practicing the Transcendental Meditation program will receive instruction in the Transcendental Meditation technique as part of their first course. It is recommended that all students in this M.A. program also practice the TM-Sidhi program. Those students who have not yet learned the TM-Sidhi program may be able to learn these techniques after they have enrolled.

Students entering the nonstandard 3-year program must be practicing both the Transcendental Meditation and TM-Sidhi programs for at least one year.

NOTE: For students whose first language is not English, a TOEFL score of 600 is required for entrance into this program.

Graduation Requirements for the Master of Arts Degree in Maharishi Vedic Science (Standard Program)

In order to qualify for the degree of M.A. in Maharishi Vedic Science, students must successfully complete all requirements for the master's degree, including FOR 500, the Science of Creative Intelligence (4 credits), and two more credits of Forest Academies. Students are encouraged to take the fall and spring weekend World Peace Assemblies. (Please refer to "Degree Requirements" in "Academic Policies.") In addition, students must complete 38 credits of coursework as follows:

- MVS 461 *Maharishi Self-Pulse Reading* (2 credits)
- MVS 504 Physiology, Consciousness, and the Veda (4 credits)
- MVS 509 Bhagavad-Gita (4 credits)
- MVS 525 Sanskrit I or 526 Sanskrit II (4 credits)
- MVS 544 Physics of Invincibility (4 credits)
- MVS 552 Developing Brahman Consciousness (4 credits)
- MVS 553 *Discovery of Veda and Vedic Literature in Human Physiology: How Consciousness Creates Your World* (4 credits)
- MVS 554 Maharishi Vedic Science and Judaism, Christianity, and Islam (4 credits)
- MVS 555 Absolute Theory of Government (4 credits)
- MVS 585 Capstone — *Celebrating Perfection in Education* (4 credits)

NOTE: In the event that a student has completed some of these courses as part of previous undergraduate and/or graduate degrees, the student may petition the department to take one of the two reading and rounding courses below during those terms.

- MVS 480 Topics in Maharishi Vedic Science (4 credits/block)
- MVS 534 Readings in Vedic Literature (4 credits/block)

Graduation Requirements for the Master of Arts Degree in Maharishi Vedic Science for Teachers of the *Transcendental Meditation* technique

Students who are qualified as teachers of the Transcendental Meditation technique and have worked full-time teaching the TM program for many years can earn their M.A. by taking the Science of Creative Intelligence course, a Forest Academy course, the Sanskrit course or demonstrate the ability to fluently read Devanagari, any 4 graduate courses, and the Capstone course, MVS 585. Requirements for the degree total 38 credits.

This includes the following required courses (22 credits):

- MVS 493 *Transcendental Meditation* Program Teacher Training Program and Teaching Internship (8 credits)
- MVS 500 Science of Creative Intelligence (4 credits)
- MVS 525 Sanskrit I or 526 Sanskrit II (4 credits)
- FOR Forest Academy course of student's choice (2 credits)
- MVS 585 Capstone — *Celebrating Perfection in Education* (4 credits)

Choice of any 4 courses from the following:

- MVS 461 *Maharishi Self-Pulse* Reading (2 credits)
- MVS 504 Physiology, Consciousness, and the Veda (4 credits)
- MVS 509 Bhagavad-Gita (4 credits)
- MVS 540 Principles of Maharishi Vedic Science (4 credits)
- MVS 544 Physics of Invincibility (4 credits)
- MVS 552 Developing Brahman Consciousness (4 credits)
- MVS 553 *Discovery of Veda and Vedic Literature in Human Physiology: How Consciousness Creates Your World* (4 credits)
- MVS 554 Maharishi Vedic Science and Judaism, Christianity, and Islam (4 credits)
- MVS 555 Absolute Theory of Government (4 credits)

Graduation Requirements for the Extended Professional Schedule (Nonstandard) of M.A. in Maharishi Vedic Science

Students who currently practice the TM-Sidhi program and whose extended plan of study allows them to complete at least 30 credits of DC 535 may elect to earn the M.A. in MVS by completing the required and elective courses listed above, plus MVS 517 Research Paper, and an evening Sanskrit course.

To graduate, a student needs 9 courses (36 credits), plus SCI 500 and the research paper (for a total of 44 credits). Students who wish to be eligible for application for admission to the Ph.D. in Maharishi Vedic Science must also take MVS 548 Academic Writing (1 credit) to accompany each of the courses of their degree.

Students who are qualified as teachers of the Transcendental Meditation technique and have worked full-time for an extended period of time teaching the TM program can earn their M.A. by taking any 4 M.A. MVS graduate courses, plus the Research Paper, MVS 517. In this track, 8 credits are earned for MVS 490: TM Program Teacher Training, 8 for MVS 493 TM Program Teaching Internship, as well as the standard number of credits from the SCI course, the five M.A. MVS courses, the evening Sanskrit course, and the Development of Consciousness course.

Graduation Requirements for the nonstandard M.A. degree—36 credits from the following courses, plus SCI 500 and MVS 517:

- MVS 461 *Maharishi Self-Pulse* Reading (4 credits)
- MVS 504 Physiology, Consciousness, and the Veda (4 credits)
- MVS 509 Bhagavad-Gita (4 credits)
- MVS 540 Principles of Maharishi Vedic Science (4 credits)
- MVS 544 Physics of Invincibility (4 credits)
- MVS 552 Developing Brahman Consciousness (4 credits)
- MVS 553 *Discovery of Veda and Vedic Literature in Human Physiology: How Consciousness Creates Your World* (4 credits)
- MVS 554 Maharishi Vedic Science and Judaism, Christianity, and Islam (4 credits)
- MVS 555 Absolute Theory of Government (4 credits)

MASTER'S DEGREE SPECIALIZATIONS

Students in the M.A. in Maharishi Vedic Science listed above may add a specialization to their degree by completing additional coursework in one of the following areas:

Academic Specializations — Students complete 18–36 credits of additional course work.

Academic Specializations are:

- **Specialization in Advanced Maharishi Vedic Science**

18–36 credits of coursework in classes that were not taken for the M.A. in MVS or have been significantly reformulated with new books and materials since they were taken or MVS 520 Advanced Studies in Maharishi Vedic Science

- **Specialization in Physiology and Health**

18–36 credits of graduate courses in Physiology and Health

- **Specialization in Reading the Vedic Literature**

18-36 credits of coursework selected from the following:

- MVS 525 Sanskrit and Maharishi Vedic Science
- MVS 526 Sanskrit
- MVS 527 Advanced Sanskrit
- MVS 534 Readings in Vedic Literature

- **Specialization in Maharishi Gandharva Veda**

18–36 credits of graduate courses in Gandharva Veda

Practicum Specialization

Students expand, apply, and express their growing knowledge of Maharishi Vedic Science in professional settings. The Practicum Specializations may be taken concurrently with the nonstandard schedule of study, or they may be taken after some or all of the M.A. coursework in the standard schedule has been completed.

- **Specialization in Maharishi Vedic Technologies**

18–36 credits of:

- MVS 580 Practicum in Maharishi Vedic Technologies

- **Specialization in Educational Applications of Maharishi Vedic Science**

18–36 credits of:

- MVS 581 Practicum in *Consciousness-Based* Education

- **Development of Consciousness Specialization**

Students complete 3 years of extended practice of the Maharishi Transcendental Meditation and TM-Sidhi programs.

27 credits of:

- DC 535 The *Transcendental Meditation* and *TM-Sidhi* programs, including *Yogic Flying: Applying the Organizing Power of Nature for Success in Daily Life*

- **Specialization in TM Teacher Training**

24 credits of coursework from attending a training course to become a teacher of the TM technique

Graduation Requirements for the Master of Arts Degree in Maharishi Vedic Science with a Specialization in Development of Consciousness

This 3-year program combines extended development of consciousness, practice of the TM and TM-Sidhi program, with classes meeting on a nonstandard schedule (12 weeks per 4-credit course).

In order to qualify for the degree of M.A. in Maharishi Vedic Science with a Concentration in Development of Consciousness, students must successfully complete all general requirements for the master's degree, including FOR 500, the Science of Creative Intelligence. (Please refer to "Degree Requirements" in "Academic Policies.") In addition, students must complete 9 courses (36 credits) plus the research paper for a total of 40 credits along with 27 credits of Development of Consciousness:

36 credits of the following required courses:

- MVS 461 *Maharishi Self-Pulse* Reading (4 credits)
- MVS 504 Physiology, Consciousness, and the Veda (4 credits)
- MVS 509 *Bhagavad Gita* (4 credits) or MVS 516 *Science of Being* (4 credits)
- MVS 525 Sanskrit I or 526 Sanskrit II (4 credits)
- MVS 540 Principles of Maharishi Vedic Science (4 credits)
- MVS 552 Developing Brahman Consciousness (4 credits)
- MVS 553 *Discovery of Veda and Vedic Literature in Human Physiology: How Consciousness Creates Your World* (4 credits)
- MVS 554 Maharishi Vedic Science and Judaism, Christianity, and Islam (4 credits)
- MVS 555 Absolute Theory of Government (4 credits)
- MVS 517 Research Paper (4 credits)

plus 27 credits of

- DC 535 The TM and TM-Sidhi program, including Yogic Flying: Applying the Organizing Power or Nature for Success in Daily Life

PH.D. IN MAHARISHI VEDIC SCIENCE

Entrance Requirements for the Ph.D. Degree in Maharishi Vedic Science

The Ph.D. in Maharishi Vedic Science is the highest academic and professional degree in the discipline devoted to the study of the holistic development of consciousness. The Department will, therefore, evaluate students not only for their demonstrated ability to undertake doctoral level academic work in the field, but also for the prospective student's demonstrated ability to serve as an example of the highest standards of holistic development.

Students entering the program must be practicing the TM-Sidhi program for at least one year, hold a Master of Arts degree in Maharishi Vedic Science (please refer to listing above for requirements), have at least one additional year of formal study of Maharishi Vedic Science, or experience in professions involving implementation of Maharishi Vedic Science, and have demonstrated the ability to undertake doctoral level work. For

acceptance into the program, a student's complete academic record and personal recommendations are also considered.

This program is for those individuals who wish to accelerate growth to enlightenment and become professional exponents of Maharishi Vedic Science. Students deepen their experiences of higher states of consciousness, gain a fuller grasp of principles of Maharishi Vedic Science, and refine their presentation and teaching skills. Students may choose from four tracks: (1) Reading Vedic Literature in Sanskrit, (2) Applications of Maharishi Vedic Science to Society, (3) Modern Science and Maharishi Vedic Science, (4) Research in Higher States of Consciousness, or (5) Exploration of the Principles of Maharishi Vedic Science in the Vedic literature.

Graduation Requirements for the Ph.D. Degree in Maharishi Vedic Science

The Core Curriculum consists of 58 credits selected by the faculty from the following courses:

YEAR 1

- MVS 605: Seminar on Philosophy of Science and Scientific Research on Maharishi's Technologies of Consciousness (2 credits)
- MVS 611 Research Methods: Learning the Self-Referral, Self-Correcting Nature of Science (2 credits)
- MVS 670 Advanced Analysis and Synthesis of Total Knowledge. (8 credits)
- MVS 671 Maharishi's Insight into the Veda and Vedic Literature: Fabrics of Immortality. (8 credits)
- MVS 673 Original Research in EEG, Brain and Enlightenment. (4 credits)
- MVS 674 Peace-Creating Professionals: Applying Maharishi Vedic Science to Society. (8 credits)
- MVS 680 Maharishi Vedic Science Seminar (1 credit per semester)
- MVS 691 Preparation for the Written Qualifying Examination: Synthesizing and Expressing Total Knowledge (4 credits)

Upon successful completion of this core curriculum, students are advanced to candidate status and begin work in their dissertation proposal.

YEAR 2

- MVS 695 Faculty Development Seminar (2–4 credits)
- MVS 700 Dissertation proposal: The Scientific Character of Research in Consciousness and Reading the Vedic Literature (12 credits)

Upon successful completion of these courses, which culminates with the defense of their written proposal, students advance to the Ph.D. researcher status and then enroll in

MVS 701 Original Research and Dissertation Preparation.

The Ph.D. degree is awarded to a Ph.D. researcher once the following steps have been completed:

- Presentation of the dissertation findings in a formal lecture with an open public forum for discussion
- Acceptance of dissertation by the Graduate School and the Library
- Certification by the graduate faculty of the student's continuing exemplification of the highest standards of holistic development.

COURSES

Undergraduate Courses

MVS 100 *The Transcendental Meditation Program: Developing the Total Potential of the Human Brain*

All students begin their studies at Maharishi University of Management by learning the Transcendental Meditation technique, a simple, natural, effortless procedure to develop full human potential and culture experiences of higher states of human consciousness. This course will cover the nature of the practice of the Transcendental Meditation technique, scientific research, and its applications in individual life and society. Personal instruction in the Transcendental Meditation technique will be included in this course. The laboratory component of this course will include twice-daily group practice of the Transcendental Meditation technique. (1 credit)

MVS 102 Sanskrit: Learning the Sounds of Nature

“Consciousness is the most basic element in creation; therefore the study of consciousness and research in consciousness, which is offered by the traditional Vedic Literature, gives the student the ability to do anything and achieve anything with the support of the evolutionary power of Natural Law.” — Maharishi

Reading the Vedic Literature in Sanskrit is a new technology of Maharishi Vedic Science to speed the development of higher states of consciousness. In this course, students learn to read the Vedic Literature in Sanskrit and discover how this practice actually strengthens brain functioning. Students also learn the basic principles of Maharishi Vedic Science, including the recent discovery of how human physiology forms a perfect replica of Natural Law, as embodied in the 40 aspects of the Veda and Vedic Literature. This historic discovery reveals that the natural laws governing the universe are the same laws governing our physiology — meaning that each of us has access, within our own physiology, to the total potential of Natural Law. This in turn gives us the potential to know anything, do anything, and accomplish anything. (4 credits)

MVS 150 CCTS: Science and Subjectivity—Critiques of Science as a Purely Objective Approach to Knowledge

This reading-intensive seminar will present the standard view of science as an attempt at gaining objective knowledge using logic and observation. It will then study critiques of this model, which bring out the role that subjective factors like creativity and judgment play at each step of the process. It will also explore the question of whether there can be a “subjective science,” and how Maharishi’s Vedic Science fits within the structure of

scientific approaches to knowledge. Readings will include Thomas Kuhn's *The Structure of Scientific Revolutions* and Ken Wilber's *The Marriage of Sense and Soul*. (4 credits)
Prerequisite: taken during students' first semester, or with consent of the Department faculty

MVS 202 Higher States of Consciousness: Realizing Your Full Human Potential in the Growth of Enlightenment to its Pinnacle in Unity Consciousness

This course covers the description of higher states of consciousness that arise naturally and spontaneously through the Transcendental Meditation and TM-Sidhi programs. The course explores each of the higher states of consciousness through subjective descriptions of direct experience and objective scientific research. (4 credits)

MVS 208 Fundamentals of Maharishi Vedic Science: Atma and Veda — the Self-Referral Dynamics of Consciousness Underlying the Individual and the Universe

This course systematically investigates Maharishi's explanation of the self-referral dynamics and structure of pure consciousness, as being the ultimate source and content of all the Laws of Nature that are responsible for the creation and orderly functioning of both individual and universal life. Topics include: the analysis and synthesis of the Nature and range of *Atma*, the universal Self of every individual; how the fluctuations of *Atma* appear as the structure and qualities of the four Vedas in terms of their qualities and sequential unfolding; how the structures and functions of the Vedas correspond to the human physiology and the cosmic physiology of the cosmos; the reading of the Vedic Literature in Sanskrit; and exploring the correlation between the cosmic creative process as expressed in the Vedas with theories of the structure and functioning of the unified field Superstring theory of modern quantum physics. (4 credits)

MVS 210 The Vedic Literature in Maharishi Vedic Science: Sequential Expression of Total Natural Law, the Constitution of the Universe

This course explores the 36 branches of the Vedic Literature that are contained within and yet have sequentially unfolded from the Rik, Sama, Yajur and Atharva Vedas. Topics include: the 6 "Limbs of the Veda" called the Vedanga: Shiksha, Kalp, Vyakaran, Nirukt Chhand and Jyotish, which express the Vedic knowledge of the specific engineering mechanics of creation; the 6 "Subordinate Limbs of the Veda" called the Upanga and also known as the 6 systems of Indian philosophy: Nyaya, Vaisheshik, Sankhya, Yoga, Karma Mimansa and Vedanta, which explore how to systematically and completely understand and experience the full range of any object of inquiry. All the 36 branches of the Vedic Literature are examined in relation to their specific qualities and contributions to the Totality of knowledge and the infinite organizing power called the Constitution of the Universe—the totality of Natural Law that governs the universe with perfect order. The structure and functions of the Vedic Literature are also explored in terms of their

corresponding expressions as the various aspects of the individual human physiology and the cosmic physiology of the universe. (4 credits) *Prerequisite:* MVS 208

MVS 225 Maharishi Vedic Science and Judaism, Christianity, and Islam

Students will explore universal principles of life expressed by Maharishi Vedic Science and the religions of Judaism, Christianity, and Islam. The course will provide students the opportunity to study the following topics: The existence and nature of God; the main purpose of human life; the ultimate cause of all problems and suffering; turning within: the technology of transcending; the development of higher states of consciousness; and the creation of heaven on earth. (4 credits) *Prerequisite:* WTG 191

MVS 226 Maharishi Vedic Science and Buddhism, Taoism, Confucianism

Students explore universal principles of life expressed by Maharishi Vedic Science and the religions of Buddhism, Taoism, and Confucianism. The course gives students the opportunity to study the following topics: The existence and nature of God, the main purpose of human life, the ultimate cause of all problems and suffering, turning within and the technology of transcending, developing higher states of consciousness; and the creation of heaven on earth. (4 credits) *Prerequisite:* WTG 191 is recommended but not required.

MVS 235 Music Appreciation: Appreciating Music as the Art of Giving Audible Life to the Harmonious Structure of Natural Law

This course investigates the nature of music through the study of western classical masterpieces, music theory, piano lessons, and Maharishi Gandharva Veda — the classical music of North India originating from the ancient Vedic civilization. Students explore the mechanics of transformation of consciousness into audible sound, and the fulfillment of music's supreme quest to establish harmony within the musician and in the environment. (4 credits)

MVS 236 Music, Consciousness, and Veda

Students will participate in the Invincible America Assembly program while on the course, allowing the opportunity to become deeply rested and refreshed. In the afternoon, students will take the Music, Consciousness, and Veda course. (2 credits) *Prerequisite:* instruction in the TM-Sidhi program

MVS 240 EEG, Brain, and Enlightenment: Brain Functioning Underlies Conscious Processing, States of Consciousness, and Enlightenment

Brain functioning underlies conscious processing, states of consciousness, and enlightenment. Students will learn how to record EEG (brain waves) and other physiological measures (breath rate, heart rate, and skin conductance), will learn the brain signatures of the practice of the Transcendental Meditation technique and of higher states

of consciousness, and will conduct original research testing a research question that they generate during the course. (4 credits)

MVS 300 *Science of Being and Art of Living*: Maharishi's Guide to Life in Enlightenment

Science of Being and Art of Living was Maharishi's first book, published in 1963. In this course, both through reading and through studying Maharishi's video tapes, students investigate the main themes of the book — Being, the essential constituent of creation; how to contact and how to live Being; how to live one's full potential, in thought, speech, action, and relationships; and God realization. (4 credits)

MVS 302 Bhagavad-Gita — Chapters 1–3: The Principles of Dharma, the Eternal Nature of Life, and Effortlessness of Transcending as the Basis of Right Action

This course studies Maharishi's translation and commentary on the Bhagavad-Gita, a work that sequentially unfolds profound principles of human behavior. The Bhagavad-Gita, as a textbook for Maharishi Vedic Science, contains the essence of the detailed knowledge of consciousness contained in the Vedic Literature. Topics include: the scope, structure, and dynamics of human behavior; the seven states of consciousness; collective consciousness; and the solution to the fundamental dilemma at the basis of human suffering. (variable credits)

MVS 303 Bhagavad-Gita — Chapters 4–6: The Roles of Action and Silence, Knowledge and Experience, in Rising to Higher States of Consciousness

This course studies Maharishi's translation and commentary on the Bhagavad-Gita, a work that sequentially unfolds profound principles of human behavior. The Bhagavad-Gita, as a textbook for Maharishi Vedic Science, contains the essence of the detailed knowledge of consciousness contained in the Vedic Literature. Topics include: the scope, structure, and dynamics of human behavior; the seven states of consciousness; collective consciousness; and the solution to the fundamental dilemma at the basis of human suffering. (variable credits)

MVS 304 Applications of Maharishi Vedic Science: Creating a Stress-Free, Harmonious, Prosperous, and Enlightened Society

In this course, students examine applications of Maharishi Vedic Science to education and rehabilitation, government and defense, or business and industry. Then they review research documenting the effectiveness of the technologies of Maharishi Vedic Science in these areas. (variable credits)

MVS 307 Practicum in Maharishi Vedic Science: Individual Project in Creating Heaven on Earth

In this course, students gain experience presenting the practical application of Maharishi Vedic Science to an area of society that they studied in MVS 304. (4 credits)

Prerequisite: MVS 304

MVS 308 Research Design and Outcomes on the *Transcendental Meditation* Program: Verifying a Paradigm Shift in Human Potential

As a precise, systematic, and effective method for developing human consciousness, the Transcendental Meditation and TM-Sidhi programs have given rise to a substantial scientific research program. This course reviews contemporary methods of research — including issues from the philosophy of science — as it applies to the research on the Transcendental Meditation program — and develops the ability to evaluate and explain specific studies on developing mental potential, improving health, and creating effective and rewarding social behavior. (4 credits)

MVS 309 Fundamentals of World Peace: Creating Coherence in Collective Consciousness as the Basis for World Peace

Students explore various methods of creating peace, with special emphasis on the documented effectiveness of these methods, and understanding the underlying scientific explanations accounting for this effectiveness, particularly in the physics of invincibility. Students study the sociological concept of collective consciousness, and the course emphasizes in-depth examination of Maharishi Vedic technologies — particularly group practice of the TM-Sidhi program — and its ability to create coherence in collective consciousness as the basis for creating peace. (4 credits)

MVS 312 Field Experience: Applying the Principles You Have Learned to Improve Quality of Life in Society

During this course students will work on campus or in nonprofit educational institutions authorized to hold courses in the Transcendental Meditation technique. Students will help organize courses, apply their lecture and/or checking skills, and help with expansion projects for these institutions. (variable credits — may be repeated for credit)

Prerequisite: consent of the instructor

MVS 314 Academic Mentorship: Participating with Faculty in Packaging Maharishi Vedic Science for Application in Society

In this course, students will work closely with senior faculty on selected special projects, such as the development of books and other curricular materials on Maharishi Vedic Science. (variable credits) *Prerequisite:* consent of instructor

MVS 321 Reading the Vedic Literature 1: Cultivating Total Brain Functioning for Higher States of Consciousness

During this course, students will read the classical texts of Vedic Literature in the Devanagari script. The texts are read for the sound value, enjoying benefits in consciousness and in physiology. Students will begin this course with a major division of the Vedic Literature. (4 credits) *Prerequisites:* MVS 102 and permission of the instructor

MVS 322 Reading the Vedic Literature 2: Aligning Individual Behavior with the Perfect Sequential Unfoldment of Cosmic Law

During this course, students will read the classical texts of Vedic Literature in the Devanagari script. The texts are read for the sound value, enjoying benefits in consciousness and in physiology. Students will begin this course with a major division of the Vedic Literature. (4 credits) *Prerequisites:* MVS 102 and permission of the instructor

MVS 323 Reading the Vedic Literature 3: Enlivening the Essential Nature of the Physiology as Veda and Vedic Literature

During this course, students will read the classical texts of Vedic Literature in the Devanagari script. The texts are read for the sound value, enjoying benefits in consciousness and in physiology. Students will begin this course with a major division of the Vedic Literature. (4 credits) *Prerequisites:* MVS 102 and permission of the instructor

MVS 324 Reading the Vedic Literature 4: The Secret Path to Perfection in Life

During this course, students will read the classical texts of Vedic Literature in the Devanagari script. The texts are read for the sound value, enjoying benefits in consciousness and in physiology. Students will begin this course with a major division of the Vedic Literature. (4 credits) *Prerequisites:* MVS 102 and permission of the instructor

MVS 331 *Transcendental Meditation-Sidhi* Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part I

The TM-Sidhi program is a natural extension of the Transcendental Meditation program and may be learned after two months of regular practice of the Transcendental Meditation technique. The Transcendental Meditation technique opens the awareness to Transcendental Consciousness, which is the basis of everyone's awareness. The TM-Sidhi program cultures the ability to think and act from this level. This course includes instruction in the TM-Sidhi program and group knowledge and experience meetings. (2 credits for each part) *Prerequisites:* a record of good mental and physical health, completion of the TM-Sidhi course application, and acceptance by the TM-Sidhi program directors

MVS 332 *Transcendental Meditation-Sidhi* Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part II

The TM-Sidhi program is a natural extension of the Transcendental Meditation program and may be learned after two months of regular practice of the Transcendental Meditation technique. The Transcendental Meditation technique opens the awareness to Transcendental Consciousness, which is the basis of everyone's awareness. The TM-Sidhi program cultures the ability to think and act from this level. This course includes instruction in the TM-Sidhi techniques and group knowledge and experience meetings. (2 credits for each part) *Prerequisites:* a record of good mental and physical health, completion of the TM-Sidhi course application, acceptance by the TM-Sidhi program directors, and completion of MVS 331

MVS 342 Health Benefits of Maharishi Gandharva Veda

Exploratory research indicates that the effects of listening to Maharishi Gandharva Veda music include an increase in brain wave coherence, more integrated behavior, and a tendency of mental activity to settle down and experience finer states of awareness. Students become familiar with this research and perform related studies of their own. Includes instruction in bamboo flute, tabla, sitar, or voice, according to availability. (4 credits)

MVS 391 MVS Major's Senior Writing and Speaking Project: Giving Expression to the Integrated Structure of Knowledge in Your Consciousness

During this course, students develop and present a summative oral presentation and write a paper that serves to integrate and complete the knowledge and experience gained from the Maharishi Vedic Science major. (4 credits)

MVS 397 Advanced Topics in Maharishi Vedic Science: Exploring the Branches of Maharishi Vedic Science and Their Practical Technologies

Students explore advanced topics in Maharishi Vedic Science under the guidance of faculty and eminent Vedic scholars. Topics may include seminars on selected research themes, selected branches of the Vedic Literature, and Maharishi Technologies and the research on their applications. (4 credits — may be repeated for credit) *Prerequisite:* consent of instructor

MVS 399 Directed Study

(variable credits) *Prerequisite:* consent of the Department faculty

MVS 408 Professional Development in Maharishi Vedic Technologies: Learning and Applying the Technologies of Maharishi Vedic Science in Society

This course is designed for students who are taking part in professional training programs in Maharishi Vedic Technologies. (variable credits based on one credit for each week of full-time instruction.) *Prerequisite:* consent of the Department

MVS 475 Senior Capstone Seminar

In this two-week seminar, senior students from all majors reflect on their undergraduate education, in an interdisciplinary setting. This gives students an opportunity to integrate all aspects of their experience at Maharishi University of Management, including course work, extra-curricular activities, and personal development, and to articulate ways in which experience and understanding of Maharishi Vedic Science have deepened their knowledge. Growth in areas described by the university's General Education goals is also assessed during this course. (4 credits) *Prerequisite:* last semester before graduation

MVS 480 Topics in Maharishi Vedic Science

This course presents knowledge of Maharishi Vedic Science, formulated by Maharishi and applied to all streams of knowledge by the University faculty and guest lecturers. The principles of this integrated structure of knowledge are shown to have application for every area of society, as documented by the scientific research on the Transcendental Meditation and TM-Sidhi programs. (variable credits — may be repeated for credit)

MVS 485 Rotating University Abroad

There are many opportunities to study Maharishi Vedic Science abroad. In this course, students will travel to a country that may play a special role in Maharishi's worldwide Transcendental Meditation program Movement, such as India, South Africa, or Switzerland, and study Maharishi Vedic Science in that context. The course may include taped lectures of Maharishi, study of Sanskrit, and excursions to relevant locales. In some cases, the focus shifts to study of the deep cultural traditions of a country such as China and how these traditions parallel Maharishi Vedic Science (4 credits). *Prerequisite:* consent of Department faculty

MVS 490 Transcendental Meditation Program Teacher Training

This course comprises the Transcendental Meditation Program Teacher Training Course, providing the knowledge and experience of consciousness as the basis of life and preparing one to present the knowledge to others. It also gives an opportunity for personal development through deeper personal experience of the Unified Field of Natural Law and understanding of the Science of Creative Intelligence. Participation in the course does not automatically qualify a student to graduate as a teacher of the Transcendental Meditation program. Further training and fieldwork may be needed before graduation as a teacher. Academic credit for the completion of this course is offered by Maharishi

University of Management under a contractual agreement with Maharishi University of Natural Law, Great Britain, who controls the acceptance to the course, the cost of the course, and the content of the course. (8 credits) *Prerequisites:* STC 108/109 or FOR 500 and other prerequisites as established by Maharishi Foundation

MVS 491 *Transcendental Meditation Program Teacher Training — Part 2*

This course completes the *Transcendental Meditation Program Teacher Training Course*. It also provides an opportunity for personal development through deeper personal experience of the Unified Field of Natural Law and understanding of the Science of Creative Intelligence. Participation in the course does not automatically qualify a student to graduate as a teacher of the Transcendental Meditation program. Further training and fieldwork may be needed before graduation as a teacher. (variable credits) *Prerequisites:* MVS 490 and other prerequisites as established by MVED. Students are encouraged to finish their degree requirements before taking this course, and must have a minimum of at least one year of progress in a degree at Maharishi University of Management. The course must be appropriate to the degree the student is seeking.

MVS 492 *Transcendental Meditation Program Teacher Training Program Fieldwork Internship*

This course allows students to learn and perfect the ability to expound the knowledge for developing consciousness as the Unified Field of Natural Law in the individual and in society. (2–8 credits) *Prerequisites:* MVS 490, prior consent of the Department faculty, approved study plan, and consent of the Academic Standards Committee

MVS 493 *Transcendental Meditation Program Teacher Training Program Teaching Internship*

In this course, students who have qualified as teachers of the Transcendental Meditation technique and the Science of Creative Intelligence program work full time for at least one year teaching these programs. Two credits are given for each month students are engaged in this internship. (8 credits) *Prerequisite:* MVS 491

MVS 495 *Transcendental Meditation Program Governor Training*

This course is a rigorous and systematic investigation into the nature of human consciousness, both in its pure form, as the Unified Field of Natural Law, and in its expressed values as the specific Laws of Nature structuring the activity of the mind, body, and environment. This investigation makes use of (1) a laboratory component of direct personal experience of the Unified Field of Natural Law, (2) a theoretical analysis of laboratory experience, and (3) a historical analysis of that experience by comparing the nature and development of consciousness with ancient records. (up to 24 credits — may be repeated for credit) *Prerequisites:* MVS 491 and other prerequisites as established by MVED

MVS 497 Transcendental Meditation Program Research Internship

This course provides the opportunity for extended Development of Consciousness as a field of all possibilities as well as practical application of Maharishi Vedic Science. Four credits are given for each month students are engaged in this internship. (4–24 credits)

Prerequisite: acceptance by MVED

MVS 498 Transcendental Meditation Program Minister Training

This course offers an advanced level of experience and understanding of the science and technology of consciousness. It emphasizes the study and experience of the group dynamics of consciousness. Students are trained in how to fulfill their own desires in a natural way while at the same time spontaneously fulfilling the interests of the whole society. (up to 24 credits) *Prerequisites:* MVS 495 and other prerequisites established by MVED

MVS 499 Directed Study

(variable credits) *Prerequisite:* consent of the Department faculty

Graduate Courses

NOTE: All 3–4 credit graduate courses can be taken in 1.5–2 credit sections, sections A and B. However, both sections A and B must be taken in order for the course to be considered completed.

MVS 461 Maharishi Self-Pulse Reading: Assessing the Body’s Inner Intelligence through the Touch of Three Fingers on the Pulse

This course provides the theory and practical technique for detecting balance and imbalance in the body through the *Maharishi Self-Pulse* program. Students gain a thorough understanding of how the intelligence within the physiology is reflected in the pulse. The course also describes measures to correct imbalances before disease arises. Students not only learn to detect states of physiological balance and imbalance; they also learn how the *Maharishi Self-Pulse* program can create a balancing influence in any area of imbalance, spontaneously enhancing physiological integration. (variable credits)

MVS 504 Physiology, Consciousness, and the Veda: Awakening Your Total Brain Potential

In this course, students learn how the brain is designed to be a perfect reflector of total Natural Law. They see how consciousness structures the physiology and how the innumerable connections among the ten billion brain cells enable a person to live in higher states of consciousness. Students measure their own growth of consciousness as part of the course. (2–4 credits)

MVS 509 Bhagavad-Gita: The Principles of Dharma, the Eternal Nature of Life, and Effortlessness of Transcending as the Basis of Right Action

In this course, students study Maharishi's commentary on the Bhagavad-Gita, which provides a systematic exposition of the development of human consciousness, its relationship to knowledge, and its application to improve the quality of individual and collective life. (variable credits)

MVS 512 Fundamentals of Maharishi Vedic Science

In this course, students learn basic principles of Maharishi Vedic Science, such as higher states of consciousness, levels of mind, 40 aspects of the Vedic Literature, Maharishi's *Apaurusheya Bhashya*, and Maharishi Sthapatya Veda design. Students also learn numerous Vedic expressions from the Vedic Literature. (4–6 credits)

MVS 517 Research Paper

In this course, students research in depth a particular aspect of Maharishi Vedic Science. Students have the option of presenting their findings in a PowerPoint lecture or in a research paper. A faculty member in the Maharishi Vedic Science department supervises the research. (2-4 credits — may be repeated for credit)

MVS 520 Advanced Study in Maharishi Vedic Science: Analyzing the Fabric of Immortality

This course is designed for students who have completed the department's Vedic Science offerings and wish to reexamine themes from these courses in light of more recent findings in the discipline. Possible topics include: Veda and Vedic Literature, the self-referral dynamics of consciousness, and the discovery of Veda and Vedic Literature in the human physiology. Also, recent books and lectures will be used. (variable credits — may be repeated for credit) NOTE: This course is for students enrolled in the Specialization in Maharishi Vedic Science. *Prerequisite:* consent of instructor

MVS 525 Sanskrit I: Learning the Language of Nature and Understanding Principles of Natural Law

This course introduces the proper pronunciation and reading of Sanskrit, the language of the Vedic Literature. Students learn the Sanskrit alphabet and the Devanagari script, and they study Maharishi's explanation of the role of Sanskrit as the Language of Nature. (variable credits — may be repeated for credit)

MVS 530 Readings in Vedic Literature: Accelerate Growth to Enlightenment

In this course, students read texts of the Vedic Literature for the sound value, enjoying the benefits in consciousness and in the physiology. Texts include the Bhagavad-Gita, Ramayana, Upanishads, and other aspects of the Vedic Literature. (variable credits — may be repeated for credit)

MVS 531 *Transcendental Meditation-Sidhi* Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part I

The TM-Sidhi program is a natural extension of the Transcendental Meditation program and may be learned after two months of regular practice of the Transcendental Meditation technique. The Transcendental Meditation technique opens the awareness to Transcendental Consciousness, which is the basis of everyone's awareness. The TM-Sidhi program cultures the ability to think and act from this level. This course includes instruction in the TM-Sidhi program and group knowledge and experience meetings. (2 credits for each part) *Prerequisites:* a record of good mental and physical health, completion of the TM-Sidhi course application, and acceptance by the TM-Sidhi program directors

MVS 532 *Transcendental Meditation-Sidhi* Course: Learning to Harness Total Natural Law to Work for You and Fulfill Your Desires, Part II

The TM-Sidhi program is a natural extension of the Transcendental Meditation program and may be learned after two months of regular practice of the Transcendental Meditation technique. The Transcendental Meditation technique opens the awareness to Transcendental Consciousness, which is the basis of everyone's awareness. The TM-Sidhi program cultures the ability to think and act from this level. This course includes instruction in the TM-Sidhi program and group knowledge and experience meetings. (2 credits for each part) *Prerequisites:* a record of good mental and physical health, completion of the TM-Sidhi course application, acceptance by the TM-Sidhi program directors, and completion of MVS 531

MVS 534 Readings in Vedic Literature

In this course, students read the Vedic Literature in the original Devanagari script. They keep a journal of their experiences while reading and after reading. This course includes the option for extended practice of the Transcendental Meditation and TM-Sidhi programs. (variable credits — may be repeated for credit)

MVS 540 Principles of Maharishi Vedic Science: The Self-Referral Dynamics of Consciousness

In this course, students discover the fabrics of immortality in their own physiology. Topics include the self-interacting dynamics of consciousness, the Constitution of the Universe, the forty aspects of the Veda and Vedic Literature, Maharishi's *Apaurusheya Bhashya*, Rik Veda, and Vedic Devata in the human physiology. (2-4 credits)

MVS 544 Physics of Invincibility

This course demonstrates how the historical development of unified quantum field theory has been intimately concerned with resolving the apparent opposition between observer

and observed. In this context, the student can readily understand how Maharishi Vedic Science completes and enriches the most sophisticated discoveries of advanced physics. (2–4 credits)

MVS 548 Academic Writing: Harnessing the Deepest Level of Language to Express Total Knowledge

This course is structured to develop and refine students' writing abilities through repeated rewriting of extended versions of their class papers. (variable credits — may be repeated for credit)

MVS 552 Developing Brahman Consciousness: Growing toward the Supreme Pinnacle of Human Evolution — All Experience Unified in the Self

This course investigates Maharishi's description of higher states of consciousness that arise naturally and spontaneously through practice of the Transcendental Meditation and TM-Sidhi programs. Personal experience, scientific research, and the record of ancient Vedic texts are used to understand higher states of consciousness. (2–4 credits)

MVS 553 Discovery of Veda and Vedic Literature in Human Physiology: How Consciousness Creates Your World — Physiology Is Consciousness

In this course, students learn Maharishi's unique insights into the structuring dynamics of the Vedic Literature as presented in the six Vedanga, and the criteria and methods of gaining reliable knowledge, both intellectually and experientially, as revealed by the six Upanga. This course illuminates the path to enlightenment and leads to an increasingly refined understanding and experience of the ultimate nature of reality. (2–4 credits)

MVS 554 Maharishi Vedic Science and Judaism, Christianity, and Islam

Students explore universal principles of life expressed by Maharishi Vedic Science and the religions of Judaism, Christianity, and Islam. The course provides students the opportunity to study the following topics: the existence and nature of God; the main purpose of human life; the ultimate cause of all problems and suffering; turning within: the technology of transcending; the development of higher states of consciousness; and the creation of heaven on earth. (4 credits)

MVS 555 Research on Collective Consciousness: Alliance with Total Natural Law

This course examines the methodology of creating a permanent state of world peace. Topics include: the structure and function of the total potential of Natural Law, the Government of Nature; the significance of collective consciousness and its effect on government; the Global Country of World Peace; and scientific research on Vedic technologies that align individual and national awareness with the infinite intelligence and creative power of Nature's Government, which administers the universe with perfect order. (3–4 credits)

MVS 562 Health Benefits of Maharishi Gandharva Veda

Exploratory research indicates that the effects of listening to Maharishi Gandharva Veda music include an increase in brain wave coherence, more integrated behavior, and a tendency of mental activity to settle down and experience finer states of awareness. This course presents an overview of current research, while giving students the opportunity to study this music and explore their own responses to it. Included is instruction in at least one of the following: bamboo flute, *tabla*, *sitar*, or voice. (2-4 credits — may be repeated for credit)

MVS 580 Practicum in Maharishi Vedic Technologies: Bringing Health and Wholeness to the Community

Students expand and apply their growing knowledge of Maharishi Vedic Science by functioning as professional technicians delivering such programs as the Maharishi Vedic Approach to Health preventive health and rejuvenation programs. (variable credits — may be repeated for credit)

MVS 581 Practicum in *Consciousness-Based* Education: Structuring Knowledge in the Consciousness of the Student

Students expand, express and apply their growing knowledge of Maharishi Vedic Science by functioning as professional exponents of Consciousness-Based Education, the educational system based on Maharishi Vedic Science. (variable credits — may be repeated for credit)

MVS 585 Capstone — Celebrating Perfection in Education: Synthesizing the Year of Study and Preparing for the Future

In this course, students review their growth and understanding of higher states of consciousness by writing two papers: a personal narrative of their experience during their course of study in the M.A. program, and an academic paper reviewing the main principles of Maharishi Vedic Science they have learned in their coursework. In addition, students view tapes of Maharishi on education and give written and oral feedback on their educational experience in the MA program. (2–4 credits)

MVS 588 Presentations to All Levels of Society: Knowledge Becomes Knowledge When Applied in Action

This course gives students the opportunity to integrate knowledge gained in the program by making presentations on Maharishi Vedic Science in different areas of society. Areas may include business, education, health, government, defense, rehabilitation, or agriculture. Students present a written report on their project. (variable credits)

Prerequisite: consent of the Department faculty and the Academic Standards Committee

MVS 591 Writing Skills: Generating the Perfect Flow of Speech to Express Total Knowledge

Students enhance the skills needed to write about Maharishi Vedic Science on a graduate level. This course is especially helpful for non-native speakers of English. (variable credits — may be repeated for credit)

MVS 597 Topics in Maharishi Vedic Science: Investigating the Infinity of Points within Wholeness

Students explore topics in Maharishi Vedic Science under the guidance of university faculty and eminent Vedic scholars. Topics may include: the Maharishi Jyotish program, the Maharishi Vedic Approach to Health program, Vedic Engineering, and Maharishi Gandharva Veda music. (variable credits — may be repeated for credit)

MVS 599 Directed Study

(variable credits) *Prerequisite:* consent of the Department faculty

MVS 601 Special Topics 1

This course allows students the opportunity to study a topic within Maharishi Vedic Science in depth, such as the theme of self-referral in Maharishi Vedic Science or the idea of a subjective science. (Note: The contents of this course will vary depending on the needs of the students, the research interests of the available faculty, and the latest developments in Maharishi's presentations of Maharishi Vedic Science. In all cases the course will feature in-depth study of books by Maharishi.) (variable credits)

MVS 602 Special Topics 2

This course allows students the opportunity to study a topic within Maharishi Vedic Science in depth, such as the theme of self-referral in Maharishi Vedic Science or the idea of a subjective science. (Note: The contents of this course will vary depending on the needs of the students, the research interests of the available faculty, and the latest developments in Maharishi's presentations of Maharishi Vedic Science. In all cases the course will feature in-depth study of books by Maharishi.) (variable credits)

MVS 603 Special Topics 3

This course allows students the opportunity to study a topic within Maharishi Vedic Science in depth, such as the theme of self-referral in Maharishi Vedic Science or the idea of a subjective science. (Note: The contents of this course will vary depending on the needs of the students, the research interests of the available faculty, and the latest developments in Maharishi's presentations of Maharishi Vedic Science. In all cases the course will feature in-depth study of books by Maharishi.) (variable credits)

MVS 604 Special Topics 4

This course allows students the opportunity to study a topic within Maharishi Vedic Science in depth, such as the theme of self-referral in Maharishi Vedic Science or the idea of a subjective science. (Note: The contents of this course will vary depending on the needs of the students, the research interests of the available faculty, and the latest developments in Maharishi's presentations of Maharishi Vedic Science. In all cases the course will feature in-depth study of books by Maharishi.) (variable credits)

MVS 605 Seminar on Philosophy of Science and Scientific Research on Maharishi's Technologies of Consciousness

In this seminar, students study and evaluate the main contemporary approaches to the principles, methods, and applications of modern science and discuss the contributions of Maharishi Vedic Science to solving outstanding issues in philosophy of science. They then apply the integrated standards of Maharishi Vedic Science and modern science to the main avenues of research on the technologies of Maharishi Vedic Science, including those in which they will be doing their dissertation research projects. They also practice communicating these outcomes in a manner that would be comprehensible to scholars at any university in the world. (variable credits)

MVS 611 Research Methods: Learning the Self-Referral, Self-Correcting Nature of Science

Students survey basic approaches to research such as quantitative, qualitative, historical, clinical, and philosophical methods of analysis. Topics include: logical and practical considerations in experimental design and measurement, writing literature reviews, and selecting research topics, as well as research ethics and such non-experimental methods as computer simulation, textual analysis, and survey research. (variable credits)

MVS 612 Research Principles, Logic, and Methods — Theory and Application

This course introduces the principles and logic of scientific investigation and review the skills necessary for evaluating and undertaking scientific research. Topics include: principles and methods of experimental designs and review of non-experimental methods such as textual analysis and case studies. These principles will be understood in practical contexts such as research in consciousness through the Transcendental Meditation and TM-Sidhi programs and the reading of Vedic Literature. (variable credits)

MVS 613: Philosophy of Science & Research Methods

In this seminar, students compare and contrast the nature and purpose of research in Maharishi's Vedic Science and modern science, including the principles, logic, and practice of modern scientific research and how they relate to research in consciousness and reading the Vedic Literature in Maharishi's Vedic Science. They also analyze the

ways in which research in consciousness and reading the Vedic Literature transcend or extend the standard criteria, methods, and goals of modern science. Topics include: principles and methods of experimental design and review of non-experimental methods such as textual analysis and case studies. (4 credits)

**MVS 618 Scientific Research on the Technologies of Maharishi Vedic Science:
Identifying Reliable Knowledge through Repeatable Research**

This course will review research on the technologies of Maharishi Vedic Science, including key studies in the six-volume series of *Collected Papers on the Transcendental Meditation and TM-Sidhi Program* as well as more recent studies. The course will focus on the evaluation of the studies in light of research design considerations as well as the development of the ability to describe and answer questions about key studies. (variable credits)

MVS 621 Specialized Research Paper: Testing and Validating Models in Maharishi Vedic Science

In this course, students gain experience in conducting research and writing a publishable paper investigating models in Maharishi Vedic Science. The final paper should be of suitable scientific quality that it could be submitted for publication in a peer-reviewed journal. (variable credits)

MVS 630 Readings in Vedic Literature: Accelerate Growth to Enlightenment

In this course, students read texts of Vedic Literature for the sound value, enjoying the benefits in consciousness and in physiology. Texts include the Bhagavad-Gita, Ramayana, and selected Upanishads. (variable credits — may be repeated for credit)

MVS 635 The Discovery of Veda and Vedic Literature in Human Physiology: The Individual Is Cosmic

This course studies the historic discovery of the Veda and Vedic Literature in human physiology, brought to light by Professor Tony Nader, M.D., Ph.D., under the guidance of Maharishi. Students learn:

- how the intelligence of Nature, as expressed in the Veda and Vedic Literature, forms the basis of the structure and function of the physiology, and
- how human physiology forms a perfect replica of Nature's intelligence, the Constitution of the Universe.

This knowledge, together with the technologies that arise from it, represents the complete knowledge of perfect health — and the key to perfection in every area of life. (variable credits)

MVS 670 Advanced Analysis and Synthesis of Total Knowledge

In this course, students will master the Self-referral dynamics of pure consciousness in terms of the structure and function of the Samhita of Rishi, Devata and Chhandas; Rik and Ak; Aknim Ile; the Richo Ak-kshare verse of Rik Veda; the dynamics of the Gap; Maharishi's *Apaurusheya Bhashya*; the relationship between name and form in the Veda; the four Vedas; and the relationship between the silent dynamics of consciousness and the Unified Field of quantum field theory. (8 credits)

MVS 671 Maharishi's Insight into the Veda and Vedic Literature: Fabrics of Immortality

In this course, students study Maharishi's insights into the forty branches of the Veda and Vedic Literature. Students view videotapes that Maharishi has made on the Vedic Literature, including the Veda, Vedanga, Upanga, Upaveda, Brahmana, and Pratishakhya. Special emphasis is given to Vedanta. Students learn many of the Vedic Expressions that Maharishi has taught from the Vedic Literature, and they read the Vedic Literature in Sanskrit, creating profound brain coherence. (variable credits)

MVS 672 Mastering Veda and Vedic Literature in the Human Physiology

In this course, students explore through subjective and objective means of gaining knowledge Raja Raam's connections between the structuring dynamics of the Vedic Literature and the human physiology. This course gives students the reality that they are Cosmic and leads to an increasingly refined understanding and experience of the ultimate nature of reality. (variable credits)

MVS 673 Original Research in EEG, Brain and Enlightenment

Brain functioning underlies conscious processing, states of consciousness, and enlightenment. Students will learn how to record EEG (brain waves) and other physiological measures (breath rate, heart rate, and skin conductance), will learn the brain signatures of the practice of the Transcendental Meditation technique and of higher states of consciousness, and will conduct original research testing a research question that they generate during the course. (variable credits)

MVS 674 Peace-Creating Professionals: Applying Maharishi Vedic Science to Society

In this course, students learn how to create professional presentations and structure lectures that effectively demonstrate the applied value of Maharishi Vedic Science to solve individual, national and global problems. Students will create presentations that will include research on current issues in governmental administration; finance and industry; economic inequities; education; physical, mental and societal health; crime and rehabilitation; agriculture; city planning; science and technology; homeland security;

ethnic and religious tensions; international relations and the need for permanent world peace. (variable credits)

MVS 680 Maharishi Vedic Science Seminar: Enlivening the Collective Understanding of Concepts in Maharishi Vedic Science

The Maharishi Vedic Science graduate seminar includes a review of current research topics in the major disciplines and their relationship to the principles of Maharishi Vedic Science. Each session focuses on a particular discipline and its relationship to Maharishi Vedic Science and is led by senior graduate faculty. (Track I students take 1 credit per semester; Track II students take 0.5 credits per semester.) (0.5–1 credit — repeated each semester)

MVS 682 Advanced Practicum in *Consciousness-Based* Education: Structuring Knowledge in the Consciousness of the Student

This course gives students the opportunity to integrate research skills and teaching skills by assisting the faculty in teaching a Forest Academy — a two-week period of study of particular themes of Maharishi Vedic Science. As an alternate fieldwork project, students may arrange, prepare, and give a series of presentations in at least two applied fields, such as education, government, business, rehabilitation, and the health professions. (2 credits — may be repeated for credit)

MVS 691 Preparation for Qualifying Examination: Preparing a Fertile Ground for Demonstration of the Knowledge You Have Gained

This course provides the time necessary to prepare for the qualifying examination, which demonstrates research competence. It may be in the form of a research proposal, or in another form at the discretion of the program faculty. (variable credits — may be repeated for credit) *Prerequisite:* successful completion of the core curriculum

MVS 693 Faculty Development Seminar and Oral Qualifying Exam (variable credits)

MVS 695 Faculty Development Seminar (variable credits)

MVS 698 Directed Research: Investigating the Laws of Nature Responsible for Life Around Us

(variable credits) *Prerequisite:* consent of the Department faculty and the Academic Standards Committee

MVS 699 Directed Study: Investigation into Fundamental Principles in Nature

(variable credits) *Prerequisite:* consent of the Department faculty

MVS 700 Preparation of Dissertation Proposal: Structuring the Foundation of Your Dissertation Research

Having passed to doctoral candidacy, students prepare a proposal for a doctoral dissertation for acceptance by their major professor and dissertation guidance committee. (variable credits — may be repeated for credit) *Prerequisites:* Ph.D. candidate status and consent of the dissertation advisor

MVS 701 Dissertation Research: Scholarly Investigation into Models in Maharishi Vedic Science

Students conduct original research and prepare their dissertations during their third and fourth years in the program. (0.5–2.5 credits — may be repeated for credit each semester) *Prerequisites:* approval of the dissertation proposal and consent of the dissertation committee

DEPARTMENT OF MATHEMATICS

FACULTY

- Anne Dow, Ph.D., Chair, Associate Professor of Mathematics
- Catherine Gorini, Ph.D., Dean of Faculty, Professor of Mathematics
- Paul Corazza, Ph.D., Associate Professor of Mathematics and Computer Science
- Debra Levitsky, Ph.D., Assistant Professor of Mathematics
- David Streid, Ph.D., Chief Administrative Officer, Assistant Professor of Mathematics
- Richard Weller, Ph.D., Adjunct Assistant Professor of Mathematics and Physics
- Anna Rivero, M.Sc., Instructor of Mathematics

INTRODUCTION

Mathematics is the exact study of abstract patterns and relationships. The objects that mathematicians study, such as numbers, operations, shapes, and relationships, are abstract and underlie all physical reality, but have no physical reality themselves, existing only in the consciousness of the mathematician. Thus, mathematicians study the functioning of intelligence itself.

In their work, mathematicians refer back to the principles of intelligence in their own consciousness and are able to discover the same principles of order and intelligence that govern all areas of life. Thus, mathematics is able to provide the basic language for all other sciences and has applications in every area of life.

Students who study mathematics at Maharishi University of Management learn to see the connections between the functioning of their own intelligence and mathematical knowledge. They acquire quantitative skills, problem-solving abilities, and clarity of thinking that provide a basis for success and leadership in technology-based careers. Graduates of the program in mathematics are prepared to enter a wide range of careers or continue their education with graduate or professional studies.

PROGRAMS OFFERED

B.S. in Mathematics

The Major in Mathematics provides a foundation in mathematics, plus electives in mathematics, computer science, biology, and/or physics. The program allows for flexibility in student goals by providing two tracks within the major.

MATHEMATICS TRACK

This track provides a strong foundation in mathematics that includes an introduction to real analysis and abstract algebra, plus a limited number of electives in mathematics, computer science, and/or physics.

- Students are prepared for a career in a technical area or in other professional and scientific areas.
- By judicious choice of electives and other courses, students may graduate prepared to undertake graduate study in mathematics, in computer science, in business, or in other professional and scientific areas.
- By careful selection of additional courses in computer science, students can graduate prepared to complete the Master of Science in Computer Science at Maharishi University of Management in one year.
- By also majoring in education, students can graduate prepared to teach mathematics in primary or secondary schools.

SCIENCES TRACK

This track allows students to include more science courses than the Mathematics Track. It provides students with basic mathematics and computer science and an opportunity to take further courses in mathematics, computer science, or applied areas of interest to the student.

- Students are prepared for a career in a technical area or, with careful attention to electives and other courses, for graduate study in computer science, business, and other professional or scientific areas.
- By careful selection of additional courses in both computer science and mathematics, students can graduate prepared to complete the Master of Science in Computer Science at Maharishi University of Management in one year.
- By also majoring in education, students can graduate prepared to teach mathematics in primary or secondary schools.
- Although it is possible to proceed to graduate study in mathematics through this degree, it is preferable to do so by following the Mathematics Track.

Minor in Mathematics

This minor is for students who wish to have knowledge of mathematics to support their study in computer science or any of the natural or applied sciences.

SPECIAL FEATURES

- Students gain an understanding of the parts of mathematics in relation to each other, to themselves, and to the overall body of mathematics. This integrated approach to mathematics is relevant, lively, interesting, and fulfilling for students.
- Even in their first courses, students begin to appreciate the full range of mathematics, from the deepest foundational levels to real-world applications in computer science, physics, engineering, business, and art.
- Students regularly use a computer laboratory to clarify principles and develop applications in many of their classes, including geometry, calculus, linear algebra, probability, and statistics.
- The mathematics department offers a friendly and nurturing environment for all students.
- All faculty are outstanding teachers. One has received an award for outstanding teaching from the Mathematical Association of America. The faculty organize annual mathematics festivals at the University that have attracted hundreds of high school students.
- Students regularly present their own research papers at the annual meeting of the Iowa Section of the Mathematical Association of America. Several students have received Outstanding Student Paper awards.
- Students participate in national and regional mathematics competitions. Two teams have received Honorable Mention for their creativity and teamwork in the national Competition in Mathematical Modeling.
- The Math Club helps students sharpen their problem-solving abilities and encourages them to enter mathematical competitions.
- Research shows that educational techniques used at the University produce clearer, more orderly thinking, necessary for success in mathematics — and for later careers.

DEPARTMENTAL REQUIREMENTS

Entrance Requirements for the Bachelor of Science Degree in Mathematics and the Minor in Mathematics

Before entering the Major in Mathematics or the Minor in Mathematics, students must successfully complete Functions and Graphs 2 (MATH 162) and College Composition 2 (WTG 192).

Graduation Requirements for the Bachelor of Science Degree in Mathematics

To graduate with a B.S. in Mathematics, students must successfully complete all requirements for the bachelor's degree. (Please refer to "Degree Requirements" in "Academic Policies.")

As part of the requirements for the B.S. in Mathematics, all students must complete 56 credits of required courses as follows:

32 credits of required courses:

- MATH 200 Mathematics and Infinity
- MATH 272 Discrete Mathematics
- MATH 281 Calculus 1
- MATH 282 Calculus 2
- MATH 283 Calculus 3
- MATH 286 Linear Algebra 1
- MATH 351 Probability
- MATH 490 Senior Project

Students in the Mathematics Track must also complete:

8 credits of required courses:

MATH 423 Real Analysis 1

MATH 431 Algebra 1

Plus

8 credits of mathematics courses numbered 267 or higher

Plus

8 credits of electives chosen from the following:

- any mathematics course numbered 267 or higher,
- any physics course numbered 210 or higher,
- any computer science course numbered 200 or higher,
- MGT 314.

Note: Math courses numbered 299, 399, and 499 may or may not be used towards the above requirements, depending on the content.

In addition, in their final year, students in the Mathematics Track are required to

- Take the Educational Testing Service Major Field Test in Mathematics and submit their results to the Department of Mathematics. This is usually done during the course MATH 490.

Students in the Sciences Track must also complete:

4 credits of required courses:

- CS 201 Computer Programming 1

plus

8 credits of computer science courses numbered 203 or higher

plus

12 credits of electives chosen from the following courses:

- any mathematics course numbered 267 or higher,
- any physics course numbered 210 or higher
- any computer science course numbered 203 or higher
- any chemistry course numbered 201 or higher
- any biology course numbered 260 or higher

Note: Math courses numbered 299, 399, and 499 may or may not be used towards the above requirements, depending on the content.

In addition, in their final year, students in the Sciences Track are required to:

- Take an assessment test to be chosen by the Department of Mathematics, and to submit the results to the Department of Mathematics. Students, who have taken the general Graduate Record Examination (GRE) for entry into graduate school or for other purposes, may satisfy this requirement by simply submitting their GRE results to the Department of Mathematics. Students not taking the GRE will need to consult the Department of Mathematics to determine an appropriate test.

Master of Science in Computer Science

Students completing the Sciences Track of the Mathematics Major with courses in computer science are eligible to continue on to Maharishi University of Management's Master of Science in Computer Science and may be able to complete it in one year.

Students enrolling in the Sciences Track of the Major in Mathematics, who intend to pursue this avenue, are advised to study carefully the "Entrance Requirements for the Master of Science Degree in Computer Science" given in the section of this catalog

called “Department of Computer Science.” It is strongly recommended that these students complete all these requirements as part of their undergraduate program, in addition to the requirements for the Sciences Track of the Major in Mathematics. These students should also consult the Department of Computer Science regarding their best choice of computer science courses during their undergraduate program, so that they can complete the Master of Science in Computer Science in one year.

Graduation Requirements for the Minor in Mathematics

To graduate with a minor in mathematics, students must successfully complete 20 credits of mathematics courses numbered 267 or higher.

Teacher Licensure with an Endorsement in Elementary or Secondary Mathematics

Students aiming for Iowa teacher licensure with an endorsement in elementary or secondary mathematics should consult the MUM Department of Education early in their planning.

Mathematics Placement and Mathematics Requirements for All Students

Maharishi University of Management has a distribution requirement in mathematics and many majors have mathematical prerequisites or requirements. During the first two weeks after arrival, all undergraduate students are placed at a particular level of mathematics. This usually involves taking a placement test in mathematics. Students may not enroll for any mathematics course until placement is completed. For a description of the placement program in mathematics, please see “Mathematics Placement Policies” and “General Education Requirements” in the subsection “Bachelors Degree Requirements” of the section “Academic Policies” in this Catalog.

(www.mum.edu/pdf/catalog/academicpolicies.pdf)

COURSES

MATH 051 Basic Mathematics: Locating the Basis of Mathematics in the Self-Interacting Dynamics of Consciousness

Arithmetic is the study of patterns, relations, and operations on numbers. Topics include: the arithmetic of integers, fractions, decimal fractions, ratios, and percents, with an emphasis on applications. (0 credits)

MATH 152 Elementary Algebra: Using Variables to Manage All Possible Numbers at the Same Time and Solve Practical Problems

The infinitely flexible language of algebra is used to quantify and model mathematical patterns and relationships. Topics include: operations on algebraic expressions, linear equations, the coordinate plane, inequalities, factoring, and simple quadratic equations. (4 credits) *Prerequisite:* Math 151

MATH 153 Intermediate Algebra: Using Variables to Manage All Possible Numbers at the Same Time and Solve Practical Problems

This course extends Elementary Algebra to develop further algebraic models. Topics include: polynomials, rational and radical expressions, quadratic equations, and graphing in the coordinate plane. (4 credits) *Prerequisite:* MATH 152

MATH 161 Functions and Graphs 1: Name and Form — Locating the Patterns of Orderliness That Connect a Function with Its Graph and Describe Numerical Relationships

A mathematical function quantifies the relationship between two related quantities and can be used to model change. Functions and their graphs are essential to all branches of mathematics and their applications. Topics include: domain and range, average rate of change, graphs, functions (linear, exponential, logarithmic, and quadratic), and applications. (4 credits) *Prerequisite:* MATH 153

MATH 162 Functions and Graphs 2: Name and Form — Learning to Relate the Shape of a Graph to Its Corresponding Function

A mathematical function quantifies the relationship between two related quantities and can be used to model change. Functions and their graphs are essential to all branches of mathematics and their applications. Topics include: trigonometry, algebra of functions, compositions and inverses of functions, functions (trigonometric, power, polynomial, and rational), and applications. (4 credits) *Prerequisite:* MATH 161

MATH 170 Mathematics for Sustainable Living: Knowledge is for Action

This course is designed especially for students entering the major in Sustainable Living who do not have the basic algebraic prerequisites for that major. Topics are drawn from college algebra, geometry, functions, and graphs, and these topics are related to problems in Sustainable Living such as landscaping, heat loss, solar and wind energy, and water management. (4 credits) *Prerequisites:* MATH 152 and WTG 192

MATH 200 CCTS: Mathematics and Infinity—Exploring the Full Range of Mathematics and Seeing Its Source in Your Self

Mathematics takes place in the imagination, in consciousness, unlimited either by finite measuring instruments, by the senses, or even by the feelings. At the same time, mathematics has strict criteria for right knowledge. The power of mathematics lies in bringing infinity out into the finite and making it useful in everyday life — from deciding which bank offers the best return on money, to medical imaging, to designing textiles, to creating a work of art, to putting a man on the moon. In this course, students explore many different ways in which mathematics expresses, emerges from, and uses infinity and its self-interacting dynamics. They look at the foundation of mathematics in the infinitary processes of set theory, the universe of sets, different sizes of infinity, the continuum and its limit process, sequences and series, infinite replication, and applications of infinity in many areas of life. (4 credits) *Prerequisites:* STC 108, taken during students' first semester

MATH 266 Geometry for the Artist: Applying Abstractions of Shape and Form to Create Beautiful Concrete Images

Geometry, the study of shape and form, is an essential tool for the visual artist. Topics include: symmetry, Euclidean and non-Euclidean geometry, perspective and projective geometry, and fractals. Materials fee: \$10 (4 credits)

MATH 267 Geometry: From Point to Infinity — Using Properties of Shape and Form to Handle Visual and Spatial Data

Geometry gives an understanding of shape, form, and structure that has many applications in mathematics, science, and technology. Topics include: in-depth study of Euclidean and non-Euclidean geometries and their applications. (4 credits) *Prerequisite:* MATH 162

MATH 272 Discrete Mathematics: Unified Approaches to Managing Discrete Phenomena in Computer Science and Other Disciplines

Discrete mathematics, the study of finite processes and discrete phenomena, is essential for computer science. Topics include: logic and sets, relations and functions, vertex-edge

graphs, recursion, and combinatorics. (4 credits) *Prerequisites:* MATH 162 and WTG 192

MATH 281 Calculus 1: Derivatives as the Mathematics of Transcending, Used to Handle Changing Quantities

Calculus, one of the most useful areas of mathematics, is the study of continuous change. It provides the language and concepts used by modern science to quantify the laws of nature and the numerical techniques through which this knowledge is applied to enrich daily life. Using the mathematics computer laboratory, students gain a clear understanding of the fundamental principles of calculus and how they are applied in real-world situations. Topics include: limits, continuity, derivatives, applications of derivatives, integrals, and the fundamental theorem of calculus. (4 credits) *Prerequisite:* MATH 162

MATH 282 Calculus 2: Integrals as the Mathematics of Unification, Used to Handle Wholeness

Calculus, one of the most useful areas of mathematics, is the study of continuous change. It provides the language and concepts used by modern science to quantify the laws of nature and the numerical techniques through which this knowledge is applied to enrich daily life. Using the mathematics computer laboratory, students gain a clear understanding of the fundamental principles of calculus and how they are applied in real-world situations. Topics include: techniques of integration, further applications of derivatives, and applications of integration. (4 credits) *Prerequisite:* MATH 281

MATH 283 Calculus 3: Unified Management of Change in All Possible Directions

Calculus, one of the most useful areas of mathematics, is the study of continuous change. It provides the language and concepts used by modern science to quantify the laws of nature and the numerical techniques through which this knowledge is applied to enrich daily life. Using the mathematics computer laboratory, students gain a clear understanding of the fundamental principles of calculus and how they are applied in real-world situations. Topics include: infinite series, functions of several variables and their derivatives, gradient, directional derivatives, vector-valued functions and their derivatives, the Jacobian matrix, and chain rule. (4 credits) *Prerequisite:* MATH 286

MATH 286 Linear Algebra 1: Linearity as the Simplest Form of a Quantitative Relationship

Linear algebra studies linearity, the simplest form of quantitative relationship, and provides a basis for the study of many areas of pure and applied mathematics, as well as key applications in the physical, biological, and social sciences. Topics include: systems of linear equations, vectors, vector equations, matrices, determinants, vector spaces, bases, and linear transformations. (4 credits) *Prerequisite:* MATH 282

Math 299 Directed Study

(variable credits) *Prerequisite:* consent of the Department faculty

MATH 304 Calculus 4: Locating Silence within Dynamism

This course extends the calculus of a function of a single real variable to functions of several real variables. Topics include: maxima and minima, curvilinear coordinates, line integrals, multiple integrals, change of variables, gradient fields, surface integrals, and the theorems of Green, Stokes, and Gauss. (4 credits) *Prerequisite:* MATH 283

MATH 307 Linear Algebra 2: Unified Approaches to Linear Transformations

This course deepens and extends many of the topics covered in Linear Algebra 1; additional topics include the Cayley-Hamilton theorem, Jordan canonical form, inner-product spaces, orthogonality, and spectral theory. (4 credits) *Prerequisite:* MATH 286

MATH 308 Ordinary Differential Equations: Describing Evolving Systems and Predicting Their Future

The most concise mathematical expression that describes a continuously changing physical system is a differential equation, which uses derivatives to quantify all possible states of an evolving system in one equation. Topics include: first-order differential equations, second-order linear differential equations, power-series solutions, Laplace transforms, numerical methods of solution, and systems of differential equations. (4 credits) *Prerequisite:* MATH 283

MATH 315 Special Topics in Mathematics

In this course, students investigate a specialized area of mathematics in depth. Topics will vary. (4 credits — may be repeated for credit) *Prerequisite:* consent of the instructor

MATH 351 Probability: Locating Orderly Patterns in Random Events to Predict Future Outcomes

Probability provides precise descriptions of the laws underlying random events, with applications in quantum physics, statistics, computer science, and control theory. Topics include: permutations and combinations, conditional probability, random variables, discrete and continuous distributions, expectation, and the central limit theorem. (4 credits) *Prerequisite:* MATH 282

MATH 353 Probability and Statistics 1: Methods for Deriving Dependable Knowledge from Incomplete Information

Probability provides precise mathematical descriptions of the laws underlying random events, and statistics uses this mathematical theory to make inferences from empirical data and assess their reliability. Topics include: probability, random variables, probability

distributions, mean and standard deviation, central limit theorem, tests of hypotheses, linear regression, and correlation. (4 credits) *Prerequisite:* MATH 161

MATH 370 Mathematical Logic: Mathematical Criteria for Establishing Accurate Forms of Knowledge

Mathematical logic is the mathematical description of the structure and function of the symbolic language of mathematics. This course develops a rigorous symbolic language, suitable for expressing all mathematical concepts, demonstrates the soundness and completeness of the language, and shows the inherent limitations of such formal systems indicated by Gödel's Incompleteness Theorems. (4 credits) *Prerequisite:* consent of the instructor

MATH 399 Directed Study

(variable credits) *Prerequisite:* consent of the Department faculty

MATH 401 Practicum in Teaching College Mathematics: Knowledge Is Structured in Consciousness

Under the direction of a senior faculty member, students prepare and give lectures, lead tutorial sessions, and write and grade quizzes and exams for a college-level mathematics course. (4 credits) *Prerequisite:* consent of the instructor

MATH 402 Undergraduate Research in Mathematics

This course provides an opportunity for students to do original research under the supervision of a faculty member. (1 credit) *Prerequisite:* consent of the instructor

MATH 423 Real Analysis 1: Locating the Finest Impulses of Dynamism within the Continuum of Real Numbers

Analysis is the mathematically rigorous development of calculus based on the theory of infinite sets. The analysis sequence begins with the application of the infinitary methods of set theory to construct the uncountable continuum of real numbers and unfold its topological structure, and then shows how the basic principles of calculus can be logically unfolded from this set-theoretic understanding of the continuum. Topics include: infinite sets, completeness, numerical sequences and series, open sets, closed sets, compact sets, connected sets, and continuous functions. (4 credits) *Prerequisite:* MATH 283

MATH 424 Real Analysis 2: Developing a Conceptual Foundation for Calculus

Analysis is the mathematically rigorous development of calculus based on the theory of infinite sets. The analysis sequence begins with the application of the infinitary methods of set theory to construct the uncountable continuum of real numbers and unfold its topological structure, and then shows how the basic principles of calculus can be

logically unfolded from this set-theoretic understanding of the continuum. Topics include: properties of continuous functions, differentiation, mean value theorem, Riemann integral. (4 credits) *Prerequisite:* MATH 423

MATH 431 Algebra 1: Algebraic Operations as the Self-Interacting Dynamics of a Mathematical System

Algebra is the study of the structures given to sets of elements by operations or relations as well as the structure-preserving transformations between these sets. Topics include: groups and subgroups, quotient groups, group homomorphisms, direct sum, kernel, image, Noether isomorphism theorems, and the structure of finitely generated abelian groups. (4 credits) *Prerequisite:* MATH 286

MATH 432 Algebra 2: The Integration and Interaction of Two Algebraic Operations on a Mathematical System

Algebra is the study of the structures given to sets of elements by operations or relations as well as the structure-preserving transformations between these sets. Topics include: rings, integral domains, fields, principal ideal domains, unique factorization domains, modules and submodules, tensor products, and exact sequences. (4 credits) *Prerequisite:* MATH 431

MATH 434 Set Theory: Mathematics Unfolding the Path to the Unified Field — the Most Fundamental Field of Natural Law

Set theory provides a unified foundation for the diverse theories of modern mathematics based upon the single concept of a set. Topics include: axioms of set theory, ordinals, transfinite induction, the universe of sets, cardinal arithmetic, large cardinals, and independence results. (4 credits) *Prerequisite:* MATH 370

MATH 466 Topology: Relation between Point and Infinity

Topology shows how all mathematical aspects of shape, structure, and form can be expressed in terms of set theory. Students study topologies and their properties of separation, connectedness and compactness, topological mappings, and the fundamental group of a topological space. (4 credits) *Prerequisites:* MATH 423 and 431

MATH 485 Theory of Computation: The Laws That Govern the Self-Interacting Dynamics of Numbers and Their Application

Students focus on formal abstract models of computation and capabilities of abstract machines in relation to their increasing ability to recognize more general classes of formal languages. Topics include: formal grammars, finite-state machines, equivalence of finite-state machines, right-linear and left-linear grammars, pushdown automata, context-free languages, Turing machines, unsolvable problems, and recursive functions. (4 credits) *Prerequisite:* MATH 272

MATH 490 Senior Project: Integration of All Knowledge in the Self

Students write a substantial paper unifying the knowledge gained from the courses taken during their major and relating this knowledge to deep principles from Maharishi Vedic Science. This paper may take the form of: 1) An integrated summary of main ideas from the courses taken during their major, addressing themes and questions to be provided by the Department of Mathematics, or 2) A paper integrating the 40 Aspects of the Vedic Literature and Raja Raam's discoveries to mathematics. They may relate mathematics to the 40 Aspects of the Vedic Literature as Raja Raam has done for physiology in his book "Human Physiology: Expression of the Veda" and "Ramayan in Human Physiology", or they may explore the significance and consequences of Raja Raam's discoveries for mathematics, or 3) A report of research conducted by the student on a mathematical topic or problem chosen in conjunction with the Department of Mathematics. In all of these cases, the paper will be made by the student into a poster for submission for presentation at the annual Knowledge Celebration in May of the year of completion of the major. (4 credits)

Prerequisite: consent of the instructor

MATH 499 Directed Study

(variable credits) *Prerequisite:* consent of the Department faculty

DEPARTMENT OF MEDIA AND COMMUNICATIONS

FACULTY

- Perry Bedinger, J.D., Chair, Associate Professor of Education
- Gurdon Leete, MFA, Associate Professor of Media and Communications
- Stuart Tanner, MA, Adjunct Assistant Professor of Media and Communications
- Kenneth West, MBA, Assistant Professor of Management (by courtesy)
- Nynke Passi, M.A., Assistant Professor of Literature and Writing (by courtesy)
- Jessica Keen, MA, Instructor of Media and Communications
- Susan McGuire Romero, BFA, Instructor of Media and Communications
- Gabriel Romero, AS, Instructor of Media and Communications
- Cullen Thomas, BA, Instructor of Media and Communications
- James Moore, MBA, Adjunct Instructor of Media and Communications

INTRODUCTION

We live in the Internet age, in which all communications media are converging into a unified digital format that is available instantaneously to every part of our planet. This historic transformation brings unprecedented new opportunities for improving life on earth and provides fulfilling new career opportunities for those who wish to make a creative and significant contribution to society. The aim of the B.A. in Media and Communications is to help each student acquire media, communications, and leadership skills for the 21st century, and to help each student develop and enjoy his or her full potential by launching a successful career in the new worlds of video, Web design, graphic design or professional writing. The University is at the center of a creative community that has an extraordinary reach into the worlds of film, television, media, music, and the arts. The B.A. in Media and Communications aims to connect students to this immense resource and to thoroughly support students in bringing their creative vision to fruition. The program is designed to systematically help students learn to skillfully use the most advanced digital media tools, so that they may effectively communicate messages of deeply lasting value to every corner of the globe.

SPECIAL FEATURES

In the Media and Communications program, students develop the skills to express their creativity in a variety of media. They may specialize in up to four career tracks:

- **Video/audio production** — producing • directing • acting • lighting • videography • non-linear editing • documentary production • feature film production • motion graphics • radio • Internet broadcasting
- **Graphic design/Web design/photography** — digital image editing and compositing • graphic design for print media • graphic design for interactive media • digital photography • darkroom photography • travel photography • typography • Web graphics • Web development • Web video • Web animation
- **Writing** — journalism • photojournalism • screenwriting • travel writing • creative writing • writing for the Web • creating graphic novels • publishing e-books • social media marketing
- **Creative musical arts** — songwriting • music theory • music technology • creative musicianship • music across cultures • music for film • music lessons • musical ensembles

The curriculum includes opportunities for real-world internships where students can apply their skills, develop their portfolios, and gain valuable experience and contacts for launching their careers.

DEPARTMENTAL REQUIREMENTS

Graduation Requirements for the B.A. Degree in Media and Communications

To graduate with a major in Media and Communications, students must complete 48 credits of course work from the list below, including at least 32 credits of course work from the Department of Media and Communications.

Core Courses (16 credits)

In the core courses, students develop foundational business strategy and implementation skills, writing skills, and narrative communication skills. They also further develop their skills in their area of concentration by building their portfolios in one of the capstone courses, such as Media Projects.

- MGT 200 Principles of Business Success (4 credits)
- MC 250 The Power of the Word (4 credits)
- MC 300 Narrative 1 (4 credits)
- MC 313 Documentary Filmmaking (4 credits), or MC 316 Creative Filmmaking (4 credits), or MC 370 Interactive Graphic Design for Online Publishing (4 credits), or MC 380 Media Projects (4 credits), or MC 433 RED ONE Camera Projects (4 credits), or MC 423 Feature Film Production III

Concentration (12 credits)

In the concentration, students gain skills in video/audio production, music production, graphic design/Web design/photography, or writing by completing courses from the electives listed below, consisting of

- 12 credits of film-related classes, or
- 12 credits of Creative Musical Arts classes, or
- 12 credits of visual communications classes, or
- 12 credits of writing classes

Electives (20 credits)

Elective courses develop the student's knowledge and skills in the use of the spoken or written language, in the visual arts, or in the business and technological aspects of filmmaking, video, computer animation, graphic design, or Web design. Courses that may fulfill elective requirements in this major include the following:

Film-related classes:

- MC 282 Video Production
- MC 284 Video Editing (*Prerequisite:* MC 282)
- MC 285 Advanced Video Production (*Prerequisite:* MC 282)
- MC 286 Stop Motion Animation
- MC 313 Documentary Filmmaking (*Prerequisites:* MC 300, MC 282, and MC 284)
- MC 316 Creative Filmmaking (*Prerequisites:* MC 300, MC 282, and MC 284)
- MC 317 Creating Documentaries from the Inside Out
- MC 323 Advanced Video Editing (*Prerequisite:* MC 284)
- MC 330 Radio and Web Broadcasting
- MC 421 Feature Film Production I (*Prerequisite:* invitation by faculty)
- MC 422 Feature Film Production II (*Prerequisite:* invitation by faculty)
- MC 423 Feature Film Production III (*Prerequisite:* invitation by faculty)
- MC 431 Cinematography with the RED ONE Camera (*Prerequisites:* MC 282 and MC 285, or consent of Department faculty)
- MC 432 Lighting and the RED ONE Camera (*Prerequisite:* MC 431)
- MC 433 RED ONE Camera Projects (*Prerequisite:* consent of Department faculty)

Note: "Documentary film", "Creative film", and "Feature Film" in MC 313, MC 316, MC 421, MC 422, and MC 423 refer to video as well as film. The courses include study of both film and video; all production is done in high-definition video.

Creative Musical Arts Classes (12 credits):

- MC 330 Radio and Web Broadcasting
- MGT 232 The Music Business

- MUS 101 Basic Music Instruction
- MUS 103 Drumming from Within
- MUS 201 Intermediate Music Instruction
- MUS 202 Chamber Singers of Southeast Iowa
- MUS 203 Jazz Ensemble
- MUS 204 Jazz Combos
- MUS 205 A New Approach to Music Theory
- MUS 206 Musical Artist Development
- MUS 207 Creative Music Ensemble
- MUS 210 Songwriting
- MUS 215 CCTS: Music, Consciousness, and Veda
- MUS 216 Sacred Music, Chants, and Recitations
- MUS 217 CCTS: The Power of Sound – Ultimate Quest of Both Artist and Scientist
- MUS 220 Music Appreciation
- MUS 221 Developing A Musical Ear
- MUS 223 CCTS: American Roots Music
- MUS 225 Creative Music Technology
- MUS 227 Introduction to Soundtrack Design for Film
- MUS 231 World Music: Asia, Australia, and the Americas
- MUS 240 Basic Harmony and Keyboard Skills
- MUS 250 Movement Across the Arts 1
- MUS 251 Movement Across the Arts 2
- MUS 399 Directed Study

Visual communications classes:

- FA 331 Photography 1
- FA 332 Photography 2 (*Prerequisite:* FA 331 or consent)
- FA 338 Photography and New Media 1
- FA 339 Photography and New Media 2
- FA 489 Advanced Studio in Photography
- MC 260 Digital Arts for Sustainable Living
- MC 335 Digital Photography
- MC 363 Web Design Studio (*Prerequisite:* MC 260 or MC 366)
- MC 365 Next Generation Web Design (*Prerequisite:* MC 260 or MC 366)
- MC 366 Graphic Design for Media and Communications
- MC 368 Graphic Design for the Web
- MC 369 Typography and Dynamic Typography
- MC 370 Interactive Graphic Design for Online Publishing

Writing classes:

- MC 290 The Big E
- MC 345 Creative Process
- MC 347 New Media: From Blogs to Books
- MC 410 Narrative 2 (*Prerequisite:* MC 300)
- WTG 201 Poetry of Transcendence (*Prerequisite:* WTG 192 or consent of Department faculty)
- WTG 202 Writing Fiction 1
- WTG 210 Poetry Writing (*Prerequisite:* WTG 192 or consent of Department Faculty)
- WTG 321 Blogging and Reflective Writing
- WTG 313 Writing and Reading the Short Story (*Prerequisite:* WTG 192 or consent of Department Faculty)
- WTG 314 Fiction Writing 2 (*Prerequisite:* WTG 192 or consent of Department Faculty)
- WTG 315 Writing Literary Nonfiction
- WTG 320 The Personal Essay (*Prerequisite:* WTG 192 or consent of Department Faculty)
- WTG 340 Writers on Writing
- WTG 350 Advanced Creative Writing
- WTG 360 Writing and Photography
- WTG 364 Screenwriting
- WTG 370 Writing for Fun and Profit
- WTG 373 The Graphic Narrative
- WTG 410 Travel Writing (*Prerequisite:* WTG 192 or consent of Department Faculty)

Additional electives:

- FA 201 Principles of Design
- FA 203 Understanding Art and Media
- FA 204 CCTS: The Spiritual Quest in Media and Myth
- LIT 265 The Evolution of Film
- LIT 363 The Art of Film
- LIT 364 The Science Fiction Film
- LIT 365 The History of Film
- LIT 366 The Peace Film
- LIT 372 Media and Literature
- MC 270 Social Media Marketing
- MC 308 Documentary Filmmaking and Digital Arts Rotating University
- MC 309 3-D Animation for Video and Game Design
- MC 336 Travel Photography and Video
- MC 341 Social Entrepreneurship

- MGT 232 The Music Business
- MGT 378 Marketing Management
- MGT 425 Marketing (*Prerequisites:* MGT 200, MGT 314, and WTG 192)
- MGT 428 Business Law and Ethics (*Prerequisite:* MGT 200)
- MGT 474 Marketing Research (*Prerequisites:* MGT 425, MGT 314, and WTG 192)
- MGT 478 Advertising (*Prerequisite:* MGT 425)
- MGT 484 Mediation and Negotiation

Requirements for a Minor in Media and Communications

To graduate with a minor in Media and Communications, the student must take MC 300 Narrative 1 plus 16 credits of other courses listed as required or elective for the MC major.

Requirements for a Minor in Creative Musical Arts

Students may earn a minor in Creative Musical Arts, independently of the Media and Communications major. To graduate with this minor, the student is required to complete 20 credits of music courses.

COURSES

For the descriptions of courses in this degree program taken from the departments of Art (FA), Literature (WTG, LIT), Creative Musical Arts (MUS), and Business Administration (MGT), please refer to the sections of this catalog for those departments.

MC 210 CCTS: Speech, Persuasion, and New Media

In order to effect change in the world, individuals and organizations must convince others of the need to change. In this course, students will be introduced to persuasive communication. Methods of evaluating and responding to arguments will be covered. Students will learn the fundamentals of effective speech and presentations, including the use of multimedia and new media technologies. Exemplary speeches from diverse topics and time periods will be examined, from Martin Luther King's "I Have a Dream" to modern TED Talks. The course will culminate with students giving a presentation to an audience or engaging in a moderated debate. Lab fee: \$40 (4 credits) *Prerequisites:* STC 108, taken during students' first semester

MC 250 The Power of the Word: Information and Inspiration for Action and Achievement

All writing relies on the power of the word to inform, stimulate and inspire. Each word has its own unique quality; when used in conjunction with other words and images, powerful messages are created that are used to influence the audience in many different ways. It is important for a writer to understand the power of words to communicate the most fundamental human experience, the experience of the Self and different states of consciousness. Language is the tool by which knowledge is passed on to others. The course encourages the use of language to communicate experience and knowledge in a clear and coherent form. The writer also needs to learn the craft of using words and language to shape a message for the media they are working in. The course starts with an investigation of how sound emerges from silence. From here we then study the relationship between sound and form; how language is used to describe the different elements, moods, understanding and emotions that each of us experience. The course then progresses to a study of the power of words as used in narrative, both fiction and non-fiction, journalism, audio-visual communication and advertising, with particular focus on new media. The course will draw on the rich pool of literary talent associated with the Fairfield community, with visiting lectures and online webinars with successful professionals from all areas of writing and publishing. Lab fee: \$40. (4 credits)

MC 260 Digital Arts for Sustainable Living: Harnessing the Power of Creativity and Digital Media to Build a Better World

Students focus on principles of design and foundational digital media technology skills that can be useful to sustainable living students, or to anyone. Students develop their skills by exploring fundamentals of digital photography, digital imaging and graphic design, presentation software, digital video, and Web design. They apply their skills in real-world media projects related to sustainable living, to create presentations, posters, newspaper ads, simple Web sites, and digital video for DVD and for the Web. Lab fee: \$40. (4 credits) *Prerequisite:* basic computer skills (word processing, e-mail, Web surfing)

MC 270 Social Media Marketing: Connecting in the Global Village

The course introduces students to the most recent and up-to-date social media marketing concepts and tools. Students will learn how to strategically utilize social media tools such as blogs, microblogs (Twitter), podcasts, vodcasts, video, e-mail and networking sites to engage with a desired audience. Lab fee: \$40. (4 credits) *Prerequisites:* basic computer skills

MC 282 Video Production: Understanding and Applying the Aesthetics of Motion Pictures and the Technologies of Digital Video to Transform the World with a Vision of Unbounded Possibilities

Students learn the basic skills of video production by participating in the production of a variety of different scenes and subjects. They will learn to handle and care for production apparatus including lights, cameras, and sound equipment, and will learn the different roles to be played in the process of shooting a video, including director, director of photography, gaffer, grip, electrician, art department, assistant directors, and production assistants. Lab fee: \$40. (4 credits)

MC 284 Video Editing: Utilizing Digital Tools for Capturing, Cutting, Sequencing, and Compositing Sound and Image to Create Artistic Wholeness

Video editing requires the student to be able to synthesize all the different elements of their video into a greater whole. The emphasis of this course is on exploring the craft of editing and the techniques used to maximize the emotional impact of the story. Students will study examples of work by accomplished editors and discover ways to build momentum and render the cut 'invisible'. Topics include: the language of the cut, the 180 degree system, and Murch's Rule of Six. Students will become expert in utilizing non-linear editing tools through daily editing assignments. Using the latest version of Final Cut Pro X, students will learn keyboard shortcuts and advanced trimming tools, transitions, filters, titles, keyframes, compositing tools, audio mixing, color correction,

capturing and outputting. Towards the end of the course some production time will be allotted so that students may edit a final piece of their own. Students may also bring in footage that was shot previously for their final project. Lab fee: \$40. (4 credits)

Prerequisite: MC 282

MC 285 Advanced Video Production: Developing Advanced Teamwork and Technical Skills to Produce Creative Visual Expressions

Building on the experiences from MC 282 Video Production, this course is a further exploration of team dynamics and technical skills in the film industry. Returning to the production studio, students study shot composition, camera use, lighting effects, green screen and special effects, fight choreography and stunts, as well as practice the essential skills of Directing, Art Department, Grip and Electric, and Sound. Lab fee: \$40. (4 credits) *Prerequisite:* MC 282

MC 286 Stop Motion Animation: Capturing Expressions Of Consciousness With The Digital Lens

Students in this course will gain knowledge and technical skills to produce a short stop motion film. They will learn cinematic processes and techniques used to make static objects appear as if they are moving. Students will practice the fundamentals in all three stages of creating a film: preproduction (storyboarding, timing, sets and characters), production (camera setup, software, lighting, and animation techniques), and postproduction (importing footage, adjusting timing, and removing unwanted frames). Lab fee: \$40. (4 credits)

MC 290 The Big E: Unbounded Frontiers of Electronic Publishing

New frontiers in digital technology are generating new mediums and distribution formats for entertainment and information resources. In this course, we will examine the new e-media formats for fiction writing, and what they mean for the professional career. In particular, we will focus on the practical skills: how to structure, create, sell, and market, your writing in the new world of the e-book. In doing so, we will look at the economics of the publishing world, past, present and future, and what they mean in practical terms for our own work. Lab fee: \$40. (4 credits)

MC 300 Narrative 1: Unifying and Unfolding the Full Range of Human Experience

This course examines the essential role of narrative in the creation of all forms of media. From the very beginnings of human records, whether it is mythology, scripture, literature, or the earliest cave paintings, the creators of these works have always told their audience a story or imparted a message by the use of narrative. In order to work in any creative medium, understanding the various ways in which narrative is used is a great advantage. This course will examine the range of narrative forms and narrative devices that have

been used since the dawn of time right up until the modern day. We will discover that although the forms and types of media used might have changed as technology has advanced, in fact, most of the essential forms of narrative used in creative works have been with us for ages. Understanding why will reveal how narrative reflects both the universal and unique aspects of the experience of human life. As part of the course students will be required to undertake projects that aid the development of their own narrative skills. Lab fee: \$40. (4 credits)

MC 308 Documentary Filmmaking and Digital Arts Rotating University

In this course, students will create digital documentaries through the medium of film or stills. They will travel to another country and shoot footage or photos as they travel. (4 credits) *Prerequisite:* basic digital media skills in digital photography or video

MC 309 3-D Animation for Video and Game Design: Creativity in Motion

Student in this class will explore the art and technology of 3-D animation. They will use the free 3-D content creation suite Blender to build and render 3-D animations for video and to create interactive 3-D games. Topics include: story-telling; mesh modeling; landscape generation; materials and textures; character creation and rigging; keyframe animation; lights and shadows; fluids and particles; hair and cloth simulations; force fields; game logic with sensors, controllers, and actuators; compositing; and video sequence editing. Lab fee: \$40. (variable credits)

MC 313 Documentary Filmmaking: Developing the Means to Explore Human Life in All its Diversity and Underlying Unity

Documentary films have their basis in the real world. They are made for a variety of purposes but fundamentally they explore the entire range of human experience. This course will examine the role of documentary filmmaking and all the various forms of the documentary. It will be a fascinating journey that will take students all over the globe and throughout history dealing with a wide range of issues both past and present. In this course, students will also examine how to make a documentary. It is therefore very practical in its focus. The first requirement to any documentary is knowing what the story is and what kind of story makes a good documentary. Having chosen a story, there is then the realization of it. This course will teach students the process of securing a commission from a TV channel or potential funder. Students will learn what is required to make the all-important pitch. They will then choose some stories and make short documentaries about them. Lab fee: \$40. (4 credits) *Prerequisites:* MC 300, MC 282, and MC 284

MC 316 Creative Filmmaking: Connecting to Deeper Values of Life through the Power of Integrated Images, Sound, and Composition

This course explores a more intuitive and experimental approach to filmmaking. In MC 300 Narrative 1 and MC 313 Documentary Filmmaking, a more structured narrative-based approach to filmmaking is the emphasis. But all forms of media rely to a greater or lesser degree on purely aesthetic or artistic elements in order to give the final product a certain feel, look, or style. For this reason, regardless of the type of filmmaking one wants to ultimately focus on, it is a good idea to explore the power of images, sound and composition. A feature of the course is looking at the work of various video artists and film directors. By seeing examples of their work we can grow in our appreciation of how images and sound can be put together in a way that induces powerful responses in an audience. Most artists and filmmakers find important sources of inspiration for their own work by examining the work of the masters in the field. We will also examine creative forms of film, animation and other media that are narrative and non-narrative based. Students will also work on their own creative filmmaking project. Various media can be incorporated into this project, such as video, still images, animation and music. It is through experimenting with various media that a director of films or other media finds a method of working or an aesthetic that will enhance their future work. Lab fee: \$80. (8 credits) *Prerequisites:* MC 300, MC 282, and MC 284

MC 317 Creating Documentaries from the Inside Out: Change Begins Within

Making documentary films is considered one of the “purest” forms of filmmaking as documentaries are based on real life and set in the real world. Good documentary filmmakers draw upon their own life experience to bring a richness and sensibility to the procedure of shaping a story and actually making a film. A well-crafted documentary can be an extraordinarily powerful vehicle for social change. The best ones are also entertaining, emotionally engaging and creatively rewarding for the filmmaker. This course will explore the reality of making a documentary step by step. Students will also discover how the filmmaker's own inner landscape evolves through the creative process. Students will also learn about specific production roles from successful film industry experts via live Skype presentations, and have the opportunity to ask them directly how they approach their work. Students will then make a short documentary and screen their films at a special event at the end of the course. Students are encouraged to come to the course with a list of story ideas for their film. This course involves both team work and individual assignments. Lab fee: \$40. (4 credits)

MC 323 Advanced Video Editing: Compositing, Animating and Color

This is an advanced level course that focuses on color grading, compositing (layering multiple images), animating (changing these layers so they fly, grow or fade over time), and all of the finishing touches that will make your video projects appear both polished

and visually exciting. After in-class tutorials, students will apply these tools to any previous video project or new creative project of their conceiving. Projects might include, for example, creating a film look for your video with color grading, creating an animated opening credits sequence, creating customized Lower Thirds, or creating your own 3-D environment. Lab fee: \$40. (4 credits) *Prerequisite:* MC 284

MC 330 Radio and Web Broadcasting: Informing, Educating, and Transforming the World with a Vision of Unbounded Possibilities

This is a practical course, emphasizing hands-on production for radio and Web broadcasting. Student will research, write, record, produce and edit original radio projects. Students may work on journalistic or creative projects with a commercial or non-commercial orientation. They will develop on-air skills such as presenting, reporting, and interviewing. Sound is a powerful form of expression; through sound alone we can tell a story which moves an audience or takes them to another world by stimulating their imagination. The creative power as well as the story telling power of radio will therefore be fully explored in this course. A unique feature of this course is that it offers students the opportunity of broadcasting their radio projects on KRUU-FM. Lab fee \$40. (4 credits)

MC 335 Digital Photography 1: Unlocking the Power of Light

Digital photography helps strengthen the connection between the photographer's vision and the resulting images by providing nearly instant feedback and furnishing ever-subtler tools for self-expression. In this course, students learn foundational principles that underlie commercial digital photography, while using principles of consciousness to consolidate both the experience and understanding of digital photography. Topics include: mastering the digital camera, managing a digital workflow, color management in theory and practice, visualizing light and how to control it in the digital darkroom. Lab fee: \$40. (1–4 credits)

MC 336 Travel Photography and Video in Ecuador

In this photography course, students will be able to explore Ecuador's most beautiful diverse landscapes, vibrant cultures, and spectacular wildlife. Students will spend one week at Maharishi University of Management learning or refining their knowledge of travel photography and videography. They will learn the fundamentals of technical, social, and physical skills that are necessary for a photography travel assignment. Then they will travel for two weeks to Ecuador to develop their photography skills. Using their digital lens, they will learn to capture the swirl of colors of Andean markets and the amazingly approachable animals of the Galápagos Islands. In the final week of post-production at Maharishi University of Management, students will create a showcase of their work as a preparation for a public presentation. Estimated additional cost: \$2000. (2

or 4 credits. Non-full-time students may take the travel portion of the course for 2 credits. Full-time students are required to take the 4 credit course.)

MC 341 Social Entrepreneurship

This project-based class challenges students to employ every ounce of their creativity and apply their knowledge to finding solutions to the world's most challenging problems, whether local or global, in the area of environmental sustainability, education, communications, or business. Each week we will connect with and learn from social entrepreneurs from around the world working in education, mobile technology, community development and so forth, and draw inspiration from their relentless vision and determination. Through the study of innovations in the social sector, we will develop an understanding of core principles and tactics of social change as well as the necessary leadership qualities of social entrepreneurs. Students will work individually or in groups to conceive of a social intervention of their own design. Students will present their plans, models and media to a committee to evaluate the potential of their work to create social change. Lab fee: \$40. (4 credits)

MC 345 Creative Process: Curving Back Onto My Own Nature, I Create Again and Again

In Creative Process, students study their own creative process as well as what artists, writers, and filmmakers have shared about creative inspiration. The purpose of this class is to break boundaries and rediscover an easy relationship with the inner Muse. The primary textbook is *The Artist's Way* by Julia Cameron. The Syllabus Reader contains material by a wide range of authors such as Annie Dillard, Jorge Luis Borges, Eudora Welty, Ann Patchett, Patricia Hampl, William Saroyan, John Ciardi, Frank Conroy, Virginia Woolf, William Faulkner, Earnest Hemingway, Thomas Wolfe, William Stafford, Rainer Maria Rilke, Lu Chi, Mark Strand, Jane Hirshfield, Billy Collins, Elizabeth Gilbert, plus interviews with great authors by Bill Moyers and material from creativity experts Anne Lamott and Natalie Goldberg. A variety of guest lecturers working in different media will come to the class to discuss their work, career paths, and creative process. Students will keep a daily journal and engage in various creative projects during the course. As a final project, students produce a portfolio and can choose to participate in a group installation/exhibit on creativity. Lab fee: \$40. (4 credits)

MC 347 New Media: From Blogs to Books

The last decade has seen a revolution in communication technology. This "new media" provides multiple channels for communication from the short Tweets and Facebook entries, through blogs, to online articles and electronic books. These new forms of electronic communication are easily available to everyone and have instant outreach to a worldwide audience. This course begins by investigating the transition from the "old

media” outlets such as newspapers, magazines and printed books to the new opportunities for professional writers offered by the Internet and electronic media. The course provides an overview of how to maximize the message through each form of electronic media with an emphasis on maintaining grammatically correct and coherent communication throughout. Students will also learn how content can be used in many different ways and how short Tweets and blog entries can be accumulated and developed into articles that can then form the basis for full-length books. This is intended to be a practical course in which students submit their work at each stage of development by creating their own blogs, submitting articles to magazines and pitching their own book ideas to publishers. A chance to publish work through a local publisher will be offered for the best work produced by students. Lab fee: \$40. (4 credits)

MC 363 Web Design Studio: The Convergence of All Media Into a Unified Digital Format

Students undertake in-depth application of HTML and Cascading Style Sheets along with principles of design for dynamic media in the creation of a portfolio of beautiful, highly functional, standards-compliant, and highly usable Web pages. Topics include: creative approaches to Web design; XHTML syntax, tags, attributes, entities, DTDs and validation; HTML5 and CSS3; creating layers of meaning with color, type, and imagery; principles of usability for interactive media; using a visual lexicon for designer-client communication; examples of outstanding Web design studios; homesteading the noosphere. Lab fee: \$40. (variable credits) *Prerequisite:* one of the following courses: MC 260, FA 361, or equivalent experience

MC 365 Next Generation Web Design: Integrating Graphics, Animation, Video, and Audio to Create Illuminating User Experiences

Students learn to use powerful tools for Web design, Web animation and video to build richly interactive Web sites that inspire the viewer. Topics include: conceptualizing new user experiences; creating innovative Web sites in HTML 5 with Web site builders; Web animation and creative user interface construction with Adobe Flash or with JavaScript libraries; choosing, building and using WordPress templates. Lab fee: \$40. (variable credits) *Prerequisite:* basic computer skills

MC 366 Graphic Design for Media and Communications: Integrating Medium and Message

This course provides students with the basic practical knowledge and skills needed to create effective visual design using current and critical tools and techniques. Students focus on developing their graphic design skills for personal and professional usage using Photoshop and InDesign. Topics include: digital imaging and page layout tools; principles and elements of visual design; color theory, layout design; basic principles and

history of typography; brand design; use of digital photography; and copyright law. Lab fee: \$40. (4 credits) *Prerequisite:* basic computer skills

MC 368 Graphic Design for the Web: Fast Path to Instantaneous Global Communication

Students learn a process that allows graphic designers to create Web sites without writing HTML code. This course focuses on understanding the graphic design process of converting Photoshop files into working Web pages. Students learn how to create graphic design web templates and easily turn them into highly functional Web pages using Adobe Muse software. Topics include: layering imagery; the ingredients of interaction; creating elegant, highly interactive Web site content without writing code; video and audio for the Web; defining features; budgets, pricing and the Web design marketplace; how to hire a programmer to add additional features to your Web site; communicating with clients and programmers; competitions, awards, promotion, and findability. Lab fee: \$40. (4 credits) *Prerequisite:* basic computer skills

MC 369 Typography and Dynamic Typography: Integration of Form and Meaning

In this class, students will develop a command of the basics of visual communication by exploring the expressive potential of letterforms in a variety of projects dealing with typographic design for print, Web and video. Students will work on projects that combine typography, color, music, and motion. The first part of the course will investigate the history and development of typography within print and Web media. Students will learn how to create effective typography as an integral part of design within their media projects, and come to understand how type is an art form that not only relays information but key creative expression. In the last part of the course, students will explore motion graphics for video; dynamic typography in video will allow students to construct another powerful layer in this medium. Lab fee: \$40. (4 credits) *Prerequisite:* basic computer skills

MC 370 Interactive Graphic Design for Online Publishing: Connecting Every Part to the Whole

Students develop graphic design skills for online publishing usage. Learn about electronic publishing and the various viewing devices and publishing formats including ebooks and Folios for iPads. Students will create a digital magazine for iPads using Adobe InDesign and Digital Publishing Suite software. The course will explore DPS's creative tools and design techniques. Students also learn how to create and professionally use Interactive PDFs with hyperlinks, article threads, and video. Lab fee: \$40. (4 credits)

MC 380 Media Projects: Making the Imagination Manifest

This is a capstone course in which individuals who have taken the courses in Media and Communications come together to envisage and then realize a set of core projects across a range of media. These projects are formulated among the student group with the aid of faculty members. The first stage of the course will be the generation of the project ideas, which can include ideas that utilize a range of media or ideas that are focused on a particular medium. The central goal of the course is for students to apply everything they have learned to these projects. It is a cooperative venture, so students will be involved in a variety of projects playing different roles on each one. You may be a director on a documentary, an actor in a drama feature, or a producer on a Web-based animation series. There is a wide range of possibilities. You imagine it and we will make it happen as a team. The idea is to produce great projects that get noticed. In addition, students undertake a research project in an area of their interest that culminates in a presentation to the class and a short essay on their research with properly cited sources. Lab fee: \$40. (variable credits — may be repeated for credit) *Prerequisites:* MGT 200, MC 250, MC 300, and 12 credits in one of the four concentrations, or consent of instructor

MC 385 Advanced Media Projects: Communicating from the Deepest Level

In this course, students have a chance to further develop their skills, their understanding, and their portfolio by completing advanced media projects in video, Web design, graphic design, music and/or professional writing. Students may also work on a research essay in the field of their study in order to further develop their critical thinking and research skills. Lab fee: \$40. (2–4 credits — may be repeated for credit) *Prerequisite:* MC 380 or consent of Media and Communications faculty

MC 398 Internship in Media and Communications: Integration of Knowledge and Action for Achievement and Fulfillment

Students gain practical experience working for a commercial or nonprofit organization in a communications or media related field, such as video production, film production, radio broadcasting, Web design, graphic design, advertising, public relations, or journalism. Students document their growth in understanding and experience in journals. Fieldwork must be completed at least two months before graduation. (variable credits)

Prerequisites: major in Media and Communications and consent of the Media and Communications faculty

MC 399 Directed Study

(variable credits) *Prerequisite:* consent of the Media and Communications faculty.

MC 410 Narrative 2: The Quest for the Essential Truths of Human Existence

This course will go deeper into some of the key aspects of narrative. It will also be more like a writer's workshop. This means there will be time to develop ideas, novels or scripts that a writer is working on or wants to begin during the course. We will be having lectures from writers and other speakers in the business who will share their expertise with us. The course will also introduce the element of performance. Those students who wish to can learn how to perform their work or the work of others. This helps with understanding how the written word becomes a performance. The performance part of the course is optional for students. Key aspects that we will go deeper into are: developing characters, style, plot development, genre, symbolism, and improving our chances of being published. The profound connection between writing and development of consciousness will also be explored. Lab fee: \$40. (4 credits) *Prerequisite:* MC 300

MC 421 Feature Film Production I: Preparation for Action

In this class, students join the key production team during the pre-production phase of a feature-length film. They help design and create sets, costumes and props, or assist in the essential organization of location scouting, scheduling and budget management. Lab fee: \$40. (4 credits) *Prerequisite:* invitation by faculty

MC 422 Feature Film Production II: Skill in Action

Students join the crew of a feature-length film in production. Lab fee: \$40. (4 credits) *Prerequisite:* invitation by faculty

MC 423 Feature Film Production III: Creating Unity from Diversity

In this class, students assist in video editing, sound mixing, scoring, special effects, and colorization as a member of the post-production team of a feature-length film. Lab fee: \$40. (4 credits) *Prerequisite:* invitation by faculty

MC 431 Cinematography with the RED ONE Camera: Realizing Your Vision From the Deepest Level

In this course, students will learn to use the RED ONE camera, a digital camera with image resolution high enough to be used for shooting cinema release feature films. Students who complete this course at a high level of achievement will receive a RED ONE certificate that means it is possible for them to use the camera in designated RED ONE production classes and projects. There are high standards for this class, and students will need to demonstrate competence and reliability in order to get this certificate. Students will also learn how to shoot with a professional digital camera. This means learning how to compose shots. What are the different ways filmographers can shoot a dramatic scene? What is the best way to shoot a documentary? Students will learn all the different types of shots. The class will also look at the work of different directors and see

how they go about filming their subjects. This course and its certification will be a boon for students when applying for jobs or advancing their careers. Lab fee: \$40. (4 credits) *Prerequisites:* MC 282 and MC 285, or consent of the Media and Communications faculty

MC 432 Lighting and the RED ONE Camera: Illuminating Scenes with Meaning and Subtle Nuance

Students in this class deepen their skills using the RED ONE camera with a particular emphasis on using lighting and exposure to enhance the expressive power and subtlety of each scene. The class will center around video production projects that include in-depth exploration of the qualities of light, placement and filtering of light sources, 3-point lighting, and other lighting strategies. Students who complete this course at a very high level of achievement will receive an additional certificate marking their achievement with the RED ONE camera. Lab fee: \$40. (4 credits) *Prerequisite:* MC 287, or consent of the Media and Communications faculty

MC 433 RED ONE Camera Projects: Expressing the Deepest Values of Life

This is a capstone course in which students work in teams or individually on media projects that use the RED ONE camera and that contribute significantly to their portfolio. The central goal of the course is for students to apply everything they have learned to these projects. This can be a cooperative venture, so students can be involved in a variety of projects playing different roles on each one. The idea is to produce great projects that get noticed. In addition students undertake a research project in an area of their interest that culminates in an essay on their research with properly cited sources, and a presentation to the class. Students who complete this course at a very high level of achievement will receive an additional certificate marking their achievement with the RED ONE camera. This course can substitute for MC 380 in fulfilling requirements for the BA in Media and Communications. Lab fee: \$40. (variable credits) *Prerequisite:* consent of the Media and Communications faculty

DEPARTMENT OF PHYSICS

FACULTY

- John Hagelin, Ph.D., Chair, Professor of Physics, Director of the Institute of Science, Technology and Public Policy, Trustee
- Kurt Kleinschultz, Ph.D., Adjunct Assistant Professor of Physics
- Richard Weller, Ph.D., Adjunct Assistant Professor of Physics and Mathematics
- Johan Svenson, M.A., Instructor of Physics

INTRODUCTION

It is said that if you understand the laws of physics, you are halfway to understanding the world. It's in that spirit — of physics as the basic core of many of today's scientific disciplines — that Maharishi University of Management offers an exciting and comprehensive minor program in physics.

The physics minor provides a calculus-based survey of the fundamental branches of classical and modern physics, enabling students in other disciplines to appreciate and enliven the connection of physical law to their own disciplines, while gaining valuable training in scientific experimentation and problem solving.

The experience and the study of human consciousness and of its higher states is an integral part of the physics curriculum at Maharishi University of Management. The most creative physicists have always emphasized human consciousness as the foundation for the scientific method used in physics. More importantly, an exciting momentum has built up over the past 30 years, as theoretical physicists have reached several decisive milestones toward a completely unified theory of all the known force and matter fields of nature. Inspired by Maharishi Mahesh Yogi, the physicists at Maharishi University of Management have discussed and proposed that this completely unified field at the basis of the whole universe is the same as the Unified Field of Consciousness, the experience of which has been recorded in the ancient Vedic literature and revived today through the advanced technologies of consciousness, the Transcendental Meditation and TM-Sidhi programs.

Now, with the increasingly widespread recognition that consciousness is much more than a localized offshoot of brain functioning, the spotlight is even brighter on physics as a leading discipline in the field of consciousness studies. That same light is also focused on Maharishi University of Management, now taking a leadership role in the field of consciousness studies, especially as we begin to explore the true potential of higher states

of consciousness. Which means our physics program is in the exciting and unique position of being able to explore new territory – the rich and fertile connections between consciousness, brain research and the study of physics.

DEPARTMENTAL REQUIREMENTS

Graduation Requirements for the Minor in Physics

To graduate with a minor in physics, students must successfully complete the following five courses

- PHYS 210 Introduction to Classical Mechanics
- PHYS 224 Introduction to Solids, Fluids, and Thermodynamics
- PHYS 230 Introduction to Electromagnetism
- PHYS 244 Introduction to Harmonics, Waves, and Optics
- PHYS 250 Introduction to Modern Physics

COURSES

PHYS 110 Foundations of Physics and Cosmology: Discovery of the Unified Field and Its Practical Applications for Perfection in Life

This course gives a deep and non-mathematical understanding of the differences between classical and quantum physics. It explains the meaning and mechanics of unification and symmetry, and the main concepts of unified quantum field theories and superstring theory. It shows that at the basis of the universe lies a completely unified field, a self-interacting entity from which all particles and forces arise through the process of spontaneous symmetry breaking. The course gives students experience and understanding of the interconnectedness between the laws of physics, the universe, and themselves. (4 credits)

PHYS 207 Classical Physics: Analysis and Synthesis

This course presents classical physics topics including motion, force, momentum, equilibrium, work, energy, fluids, solids, and heat. Included are laboratory sessions, weekly seminar sessions, and reviews of current scientific papers. Case studies will emphasize applications from the life sciences and medicine. Computational skills relevant to scientific literacy will be emphasized. (Lab fee \$50) (4 credits) *Prerequisite:* MATH 162

PHYS 208 Thermodynamics, Harmonics, Waves, Electricity, and Magnetism: Unity at the Basis of Diversity

This course presents thermodynamics, periodic motion, waves, sound, light and optics. Emphasis is on application over derivation, development of rapid estimating skills, and

real-world problem solving relevant to the life sciences. Laboratory sessions, weekly seminar sessions and reviews of current scientific papers help students develop a physics sensibility and scientific literacy. (Lab fee \$50) (4 credits) *Prerequisite:* PHYS 207.

PHYS 209 Optics, Quantum Physics, Nuclear Physics, and Elementary Particles

The course presents optics, quantum theory, atomic structure, nuclear structure, and physical chemistry. Laboratory sessions, weekly seminar sessions and reviews of current scientific papers help students develop a physics sensibility and scientific literacy. Real-world problem solving relevant to the life sciences will be presented. (Lab fee \$50) (4 credits) *Prerequisite:* PHYS 208

PHYS 210 Introduction to Classical Mechanics

Classical mechanics provides an accurate description of the objects and phenomena of everyday experience, and constitutes the basis of most of engineering, science, and technology. This calculus-based course introduces the classical laws governing motion of particles and extended bodies in space and time, beginning with their active formulation in terms of force and acceleration and then deriving the equivalent formulation in terms of conservation of energy, momentum, and angular momentum. Topics include: motion, Newton's laws, gravitation, and conservation laws. (4 credits) *Prerequisite:* MATH 281

PHYS 224 Introduction to Solids, Fluids, and Thermodynamics

This course introduces the general principles of statics, fluid mechanics, and thermodynamics. It develops the fundamental principles of conservation of energy and entropy, which underlie the behavior of all physical systems. Topics include: statics and elasticity, pressure, fluid flow, temperature and heat, kinetic theory of gases, and heat engines. (4 credits) *Prerequisites:* MATH 282 and PHYS 210

PHYS 230 Introduction to Electromagnetism

Electrical forces largely determine the observable properties of matter in the whole range of science from atomic theory to cell biology. The integration of electricity and magnetism constitutes the first unified field theory, anticipating contemporary approaches by more than a century. This course introduces electric and magnetic forces, electric current, and electromagnetic interactions, along with the concepts of electric and magnetic fields and electric potential used to understand and describe them. Topics include: Coulomb's and Gauss's laws, the Biot-Savart law and Ampere's law, Faraday's law, and Maxwell's equations. (4 credits) *Prerequisites:* MATH 282 and PHYS 224

PHYS 244 Introduction to Harmonics, Waves, and Optics

Wave behavior has applications in every area of physics, including sound, light, mechanical vibrations and waves, electrical signals, thermal behavior, and quantum physics. This course introduces common characteristics and mathematical representations

of oscillations and standing and traveling waves and applies them to the investigation of sound and physical and geometrical optics. Topics include: simple harmonic motion; resonance; mathematical representations of traveling waves; wave properties such as refraction, diffraction, interference, and polarization; and optical phenomena related to lenses and mirrors. (4 credits) *Prerequisites:* PHYS 250, MATH 286, and MATH 308

PHYS 250 Introduction to Modern Physics

Quantum mechanics and Einstein's theory of relativity are the major themes of this course. Topics include: special relativity, the birth of quantum mechanics, Schrödinger's equation, wave mechanics of one-dimensional problems, and the hydrogen atom. (4 credits) *Prerequisites:* PHYS 210 and MATH 282

PHYS 499 Directed Study

(variable credits) *Prerequisite:* consent of the Department faculty.

DEPARTMENT OF PHYSIOLOGY AND HEALTH

FACULTY

- Robert Keith Wallace, Ph.D., Chair, Dean of the Maharishi College of Perfect Health, Professor of Physiology, Director of Research, Founding President of Maharishi University of Management
- Robert Schneider, M.D., FACC, FABMR, Dean of the Maharishi College of Perfect Health, Professor of Physiology and Health, Director of the Institute for Natural Medicine and Prevention
- Paul Morehead, Ph.D., DWP, Associate Chair, Assistant Professor of Physiology and Health, Associate Dean of the Maharishi College of Perfect Health
- Michael W. Lerom, M.S., Assistant Professor of Chemistry
- Sanford I. Nidich, Ed.D., Professor of Physiology and Health and Education, Associate Director of the Institute for Natural Medicine and Prevention
- Nancy Lonsdorf, M.D., Adjunct Professor of Physiology and Health
- Liis Mattik Vonderheide, Ph.D., Adjunct Assistant Professor of Physiology and Health
- Stuart Rothenberg, M.D., FAAFP, Adjunct Professor of Physiology and Health
- Suhas Kshirsagar, B.A., M.S., M.D. (Ayurveda), Adjunct Professor of Physiology and Health
- Hemant Gupta, D.N.M., M.D. (Ayurveda), Adjunct Professor of Physiology and Health
- Deacon Carpenter, Adjunct Instructor of Physiology and Health

INTRODUCTION

The Department of Physiology and Health offers two tracks of the BA in Physiology and Health: the Maharishi Ayurveda Wellness Consultant track and the Pre-Integrative Medicine track.

Maharishi University of Management is the only university in America offering *Maharishi Ayurveda*, the prevention-oriented Consciousness-BasedSM health care system introduced by Maharishi Mahesh Yogi. This exceptionally effective natural system of health care, research shows, significantly lowers sickness rates and relieves many chronic diseases.

As part of this discipline of health, students will study how the human physiology is an expression of the deepest intelligence of nature, and how to enliven nature's intelligence,

the inner intelligence of the body, through the simple Transcendental Meditation technique.

Students will also study how to measure the level of balance or imbalance in the physiology through the technique of pulse reading. Pulse is the most effective means of gauging the degree of balance and the degree of enlivenment of the inner intelligence.

Students also study means to maintain or restore balance through diet, herbs, daily and seasonal routine, exercise, and traditional purification techniques from the ancient Vedic tradition.

This program contains three specially developed Maharishi Ayurveda courses:

- Self-Pulse Reading: Measuring the impulses of the body's intelligence and restoring balance in the physiology through the touch of three fingertips (PH 260)
- Diet, Digestion, and Nutrition: Imbibing intelligence from food and the environment (PH 262)
- *Maharishi Yoga*SM Asanas: Vedic exercise to enliven mind-body coordination to support pure awareness, the state of yoga (PH 263)

The Bachelor's Degree in Physiology and Health aims to prepare students to care for their own health through regular practice of Maharishi's Transcendental Meditation program, ideal daily and seasonal routine, balanced diet and lifestyle choices, and mutually enriching social behavior. This degree program further aims to build a strong scientific understanding of health from the modern and Vedic perspectives.

SPECIAL FEATURES

Maharishi Ayurveda Wellness Consultant Track

The Maharishi Ayurveda Wellness Consultant track prepares its students to be health educators in the field of prevention of disease and promotion of health. Students will study how to prevent disease and promote health according to the Maharishi Consciousness-Based Approach to Health. The program includes the following areas of study:

- Pulse reading: Learning to detect balance and imbalance in the body by feeling the pulse.
- Diet: Study of diets that balance and nourish the physiology.

- Daily and seasonal routine: Study of how to align the individual life with the daily and seasonal rhythms of natural law.
- Maharishi Ayurveda Wellness Consultant Training: a program to train Maharishi Ayurveda Wellness Consultants. Graduates of the program will be able to consult with clients, family, and friends, helping them achieve higher levels of health and wellness through Maharishi Ayurveda.
- Scientific foundations of health from both modern science and ancient Vedic science: Students will learn foundations of biology – living systems – and human physiology.

Pre-Integrative Medicine Track

The Pre-Integrative Medicine Track offers foundational courses in both modern science and Maharishi Ayurveda, and prepares students for a range of graduate training in licensed health professions in integrative medicine.

Integrative medicine is the practice of conventional medicine integrated with natural, complementary and alternative medical practices.

In our pre-integrative medicine track, we offer courses in the following areas of study that are required for most naturopathic, chiropractic, osteopathic, or allopathic medical schools:

- Physics: Study of matter, energy, space, and time, and their interrelationships with one another.
- General chemistry: Study of elements and their compounds, except those containing carbon.
- Organic chemistry: Study of carbon containing compounds.
- Biochemistry: Study of basic chemical structures and chemical transformations that take place in living systems.
- Biology: Study of living organisms, molecular and cell biology, and human physiology.

Physical therapy, occupational therapy, physician assistant, dental, and other health care training programs have similar entrance requirements. Those who are interested in allopathic or osteopathic medical schools will have the opportunity to prepare for the Medical College Admission Test (MCAT), which is required by allopathic and osteopathic medical schools.

In the area of foundations of natural medicine, we offer the following areas of study in Maharishi Ayurveda:

- Pulse reading: Learning to detect balance and imbalance in the body by feeling the pulse.
- Diet: Study of diets that balance and nourish the physiology.
- Daily and seasonal routine: Study of how to align the individual life with the daily and seasonal rhythms of natural law.
- Maharishi Ayurveda Wellness Consultant Training: a program to train Maharishi Ayurveda Wellness Consultants. Graduates of the program will be able to consult with clients, family, and friends, helping them achieve higher levels of health and wellness through Maharishi Ayurveda.
- Scientific foundations of health from both modern science and ancient Vedic science: Students will learn foundations of biology, living systems, and human physiology.

BACHELOR OF ARTS IN PHYSIOLOGY AND HEALTH

Graduation Requirements for the Bachelor of Arts in Maharishi Ayurveda Wellness Consultant Track

The Maharishi Ayurveda Wellness Consultant track in Physiology and Health requires 56 credits of coursework (54 if taking FOR 462 in place of PH 263), including the following required courses totaling 28 credits (26 if taking FOR 462 in place of PH 263):

Required courses

- BIO 260 Biology I: Living Systems or SL-G195 Living Systems
- BIO 264 Biology III: Human Anatomy and Physiology (*Prerequisite*: BIO 260 or SL-G195)
- PH 260 *Maharishi Self-Pulse*SM Reading
- PH 262 Diet, Digestion, and Nutrition
- PH 263 or FOR 462 *Maharishi Yoga*SM Asanas
- PH 350 Maharishi Ayurveda Wellness Consultant Training (*Prerequisite*: PH 260)
- PH 380 Research Methods (*Prerequisite*: MATH 153)

Note: Students may fulfill all or some of their requirements for biology by having completed equivalent undergraduate coursework at an accredited university and earned a grade of “B” or higher.

Students may choose their remaining required 28 elective credits from among the following courses to complete the BA degree:

Additional courses

- BIO 263 Biology II: Molecular and Cell Biology (*Prerequisite: BIO 260*)
- CHEM 201 General Chemistry I (*Prerequisite: MATH 162*)
- CHEM 202 General Chemistry II (*Prerequisite: CHEM 201*)
- CHEM 203 General Chemistry III (*Prerequisite: CHEM 202*)
- CHEM 311 Organic Chemistry I (*Prerequisite: CHEM 203*)
- CHEM 312 Organic Chemistry II (*Prerequisite: CHEM 311*)
- CHEM 313 Organic Chemistry III (*Prerequisite: CHEM 312*)
- CHEM 350 General Biochemistry (*Prerequisite: CHEM 313*)
- PH 120 Introduction to Modern Psychology and Human Development
- PH 398 Internship (*Prerequisites: Consent of the department faculty and the Academic Standards Committee*)
- PHYS 207 Classical Physics (*Prerequisite: MATH 162*)
- PHYS 208 Thermodynamics, Harmonics, Waves, Electricity, and Magnetism (*Prerequisite: PHYS 207*)
- PHYS 209 Optics, Quantum Physics, Nuclear Physics, and Elementary Particles (*Prerequisite: PHYS 208*)
- MGT 230 The Successful Entrepreneur
- MVS 102 Sanskrit
- MVS 208 Fundamentals of Maharishi Vedic Science
- MVS 240 EEG, Brain, and Enlightenment
- MVS 302 Bhagavad-Gita — Chapters 1-3
- MVS 321 Reading the Vedic Literature I (*Prerequisites: MVS 102 and permission of the instructor*)
- SL-A101 Organic Agriculture
- SL-B101 Sustainability, Buildings, and the Built Environment
- SL-G101 Permaculture Design
- SL-G105 Physics and Chemistry for Sustainability
- SL-G150 Ideal Human Relationships
- SL-G200 Building Biology
- SL-G201 Ecology
- SL-G280 Ethnobotany
- SL-G350 Plant Biology

Other health-related Sustainable Living and Maharishi Vedic Science courses may be counted toward the required 28 elective credits upon department approval.

Course offerings may vary each year.

Note: Students may receive elective credit for all or some of the general chemistry, organic chemistry, biochemistry, and physics courses by having completed equivalent undergraduate coursework at an accredited university and earned a grade of “B” or higher.

Graduation Requirements for the Bachelor of Arts in Pre-Integrative Medicine Track

The Pre-Integrative Medicine track in Physiology and Health requires 68 credits of coursework (66 if taking FOR 462 in place of PH 263) as follows:

Required courses

- BIO 260 Biology I: Living Systems
- BIO 263 Biology II: Molecular and Cell Biology (*Prerequisite:* BIO 260)
- BIO 264 Biology III: Human Anatomy and Physiology (*Prerequisite:* BIO 260 or SL-G195)
- CHEM 201 General Chemistry I (*Prerequisite:* MATH 162)
- CHEM 202 General Chemistry II (*Prerequisite:* CHEM 201)
- CHEM 203 General Chemistry III (*Prerequisite:* CHEM 202)
- CHEM 311 Organic Chemistry I (*Prerequisite:* CHEM 203)
- CHEM 312 Organic Chemistry II (*Prerequisite:* CHEM 311)
- CHEM 313 Organic Chemistry III (*Prerequisite:* CHEM 312)
- CHEM 350 General Biochemistry (*Prerequisite:* CHEM 313)
- PH 260 *Maharishi Self-Pulse*SM Reading
- PH 263 or FOR 462 *Maharishi Yoga*SM Asanas
- PH 350 Maharishi Ayurveda Wellness Consultant Training (*Prerequisite:* PH 260)
- PH 380 Research Methods (*Prerequisite:* MATH 153)
- PHYS 207 Classical Physics (*Prerequisite:* MATH 162)
- PHYS 208 Thermodynamics, Harmonics, Waves, Electricity, and Magnetism (*Prerequisite:* PHYS 207)
- PHYS 209 Optics, Quantum Physics, Nuclear Physics, and Elementary Particles (*Prerequisite:* PHYS 208)

Recommended electives

- MATH 281 Calculus 1 (*Prerequisite:* MATH 162)
- MVS 102 Sanskrit
- PH 120 Introduction to Modern Psychology and Human Development

- PH 262 Diet, Digestion, and Nutrition
- PH 380 Research Methods (*Prerequisite:* MATH 153)
- PH 382 MCAT Preparation
- PH 398 Internship (*Prerequisites:* Consent of the Department faculty and the Academic Standards Committee)

Course offerings may vary each year.

Note: Students may fulfill all or some of their requirements for general chemistry, biology, organic chemistry, biochemistry, and physics by having completed equivalent undergraduate coursework at an accredited university and earned a grade of “B” or higher.

Graduation Requirements for the Minor in Physiology and Health

The minor in Physiology and Health consists of any five Physiology and Health courses (courses coded “PH”) other than PH101 Physiology is Consciousness.

Special Option: *Maharishi Transcendental Meditation* program Teacher Training Course

Students may apply to become a Teacher of the Transcendental Meditation program. Teacher Training is a professional training program for which students apply to Maharishi Vedic Education Development Corporation (MVED). Acceptance to this special course is given by MVED, not Maharishi University of Management. This course carries 20 elective credits in the Physiology and Health major. It does not replace any of the required courses in either track of the major.

Teaching Majors Available within the Physiology and Health Major

Students in Physiology and Health may select courses that prepare them to gain an Iowa teaching license when combined with a major in secondary education. Students should consult the Education Department early in their planning to organize their college sequence of courses. Those wishing to become secondary biology teachers must take a minimum of 24 credits in the Physiology and Health major.

PHD IN PHYSIOLOGY

This special research degree is designed for doctoral-level health professionals or those with a master’s in physiology, or the equivalent, to conduct original research on the effects of Maharishi Ayurveda and Transcendental Meditation on areas of health and physiology. Maharishi University of Management continues to develop the scientific understanding of the application of natural, prevention-oriented health care for the improvement of the health and wellbeing of the individual and society.

The objectives of the PhD in Physiology program are:

1. To give students training in research design and implementation at the doctoral level, leading to publication, and
2. To provide a program for advanced original research on the effects of modalities of Maharishi Ayurveda, including Transcendental Meditation, on:
 - a. cardiovascular health, or
 - b. aging, or
 - c. improvement in PTSD and other areas of stress-related health disorders, or
 - d. neuroscience application in health.

Entrance Requirements for the PhD Degree in Physiology

The entrance requirements for the Doctor of Philosophy in Physiology are:

- Practice of the Transcendental Meditation program
- MS in Physiology; M.D., D.O., or N.D. degree; or certification as a nurse practitioner, physician assistant, or any equivalent health-professional training (*Not available at MUM*)
- Twelve credit hours of physiology and/or neurophysiology (*Not available at MUM*)

Satisfaction of entrance requirements must be approved by the Department's graduate faculty, in addition to receiving approval by the director of the program and the dean of the graduate school.

Graduation Requirements for the PhD Degree in Physiology

To graduate with a PhD in Physiology, students must successfully complete all general requirements for the doctoral degree (please refer to "Requirements for a Doctoral Degree" in "Academic Policies"). As part of these requirements, students must successfully complete the following degree requirements:

Core curriculum

- Four credit hours of research methods (*Available at MUM*)
- Four credit hours of statistics (*Available at MUM*)
- STC 508 Science and Technology of Consciousness (STC 108/109 may be substituted upon approval of department)
- Two of the following courses:
 - PH 260 *Maharishi Self-Pulse*SM Reading
 - PH 262 Diet, Digestion, and Nutrition

PH 263 *Maharishi Yoga*SM Asanas

Upon successful completion of this core curriculum, students will be advanced to PhD Candidate status. Students will then write their dissertation proposal:

- PHYSI 700 Dissertation Proposal Preparation with formal defense before faculty (variable credits)

Upon successful completion of this course, which culminates with the written proposal, students will advance to the PhD Researcher status and then enroll in PHYSI 701 Dissertation Research.

The PhD degree will be awarded to a PhD Researcher once the following steps have been completed:

- Presentation of the dissertation findings in a formal lecture with an open public forum for discussion.
- Acceptance of dissertation by the Graduate School and the Library.

COURSES

Undergraduate Courses

BIO 260 Biology I: Living Systems

This course unfolds how life's dynamic intelligence applies the principles of biochemistry, cell biology, and genetics to uphold self-organization, maintenance, and evolution of life. This course covers aspects of biochemistry, cell biology, genetics, and evolution. Emphasis is placed on the expressions of intelligence, order, and integration found at different levels of biological organization. (Lab fee \$25) (4 credits)

BIO 263 Biology II: Molecular and Cell Biology

This course presents the foundations of Human Biology at the cellular and molecular level. Topics include: human DNA and gene expression, enzymes and metabolism, cell components, cell division, and specialized cells and tissues of the body. Students will discover the fundamental themes of natural law in the ordered structures of the cell and the DNA. The DNA is the blueprint of the human physiology. (Lab fee \$25) (4 credits)
Prerequisite: BIO 260

BIO 264 Biology III: Human Anatomy and Physiology

Human Anatomy and Physiology provides the foundational understanding of how the body's structure and function maintains life in balance and homeostasis. The integrated functioning of trillions of diverse cells, each with a million chemical reactions per second, gives rise to a healthy, vital human being. We will study tissues, organs, and organ systems and their role in maintaining health and balance. The organ systems are the

musculoskeletal, cardiovascular, digestive, respiratory, endocrine/reproductive, immune, and nervous systems. The human physiology is also a replica of Natural Law expressed in the ancient Vedic Literature. Major areas of the physiology are precisely correlated, in structure and function, to the 40 aspects of Veda and the Vedic Literature. Professor Tony Nader, M.D., PhD, now Raja Raam, under Maharishi's guidance, has discovered that every aspect of the ancient Vedic Literature is mirrored by the human physiology. This understanding bridges the gap between the ancient, Vedic understanding of Natural Law and the modern understanding of human physiology and health. (Lab fee \$25) (4 credits)
Prerequisite: BIO 260 or SL-G195

CHEM 201 General Chemistry I

Topics include: dimensional analysis, atoms, molecules, ions, stoichiometry, solutions, gases, thermochemistry, atomic structure and periodicity. Weekly laboratory sessions are included. (Lab fee \$25) (4 credits) *Prerequisite:* MATH 162

CHEM 202 General Chemistry II

Topics include: chemical bonds, dipole moments, Lewis structures, resonance, molecular structure, VSEPR model, orbital hybridization, molecular orbitals, transition metals, complex ions and crystal field theory, liquids, solids, vapor pressure and changes of state, phase diagrams, colligative properties, chemical kinetics, nuclear stability and radioactive decay, and an overview of the chemistry of selected representative elements. Weekly laboratory sessions are included. (Lab fee \$25) (4 credits) *Prerequisite:* CHEM 201

CHEM 203 General Chemistry III

Topics include: chemical equilibria, acids and bases, buffered solutions, titrations and pH curves, solubility products, spontaneity, entropy, free energy, electrochemistry, and an overview of organic and biological molecules. Weekly laboratory sessions are included. (Lab fee \$25) (4 credits) *Prerequisite:* CHEM 202

CHEM 204 General Chemistry Laboratory

This course includes those laboratory experiments that correspond to the topics covered in one semester of a college-level general chemistry course. This course may be taken twice for credit: once when the labs correspond to a first-semester general chemistry course and once when the labs correspond to a second-semester general chemistry course. (1 credit) *Prerequisite:* College level general chemistry, first- or second-semester course.

CHEM 311 Organic Chemistry I

Topics include: families of carbon compound, an introduction to organic reactions and their mechanisms, nomenclature and conformations of alkanes and cycloalkanes, stereochemistry, ionic reactions, and the properties, synthesis and reactions of alkenes

and alkynes. Weekly laboratory sessions are included. (Lab fee \$25) (4 credits)

Prerequisite: CHEM 203

CHEM 312 Organic Chemistry II

Topics include: infrared, ultraviolet, and nuclear magnetic resonance spectroscopy, mass spectrometry, chemistry of radicals, properties, synthesis and reactions of alcohols and ethers, carbonyl compounds converted to alcohols, conjugated unsaturated systems, aromatic compounds and their reactions. Weekly laboratory sessions are included. (Lab fee \$25) (4 credits) *Prerequisite:* CHEM 311

CHEM 313 Organic Chemistry III

Topics include: aldehydes and ketones, carbohydrates, carboxylic acids and their derivatives, reactions at the alpha-carbon of carbonyl compounds, condensation and conjugate additions reactions of carbonyl compounds, amines, phenols, aryl halides, and a brief overview of lipids, amino acids, proteins, and nucleic acids. Weekly laboratory sessions are included. (Lab fee \$25) (4 credits) *Prerequisite:* CHEM 312

CHEM 350 General Biochemistry

This course focuses on the basic chemical structures and chemical transformations that take place in living systems. Topics include: the structure, kinetics, and regulation of enzymes; bioenergetics; and intermediary metabolism. Weekly laboratory sessions are included. (Lab fee \$25) (4 credits) *Prerequisite:* CHEM 313

PH 101 Physiology Is Consciousness: Awakening the Cosmic Potential of the Human Brain

The course will explore the new paradigm in science that the “Physiology is Consciousness.” Current concepts of mind and body will be understood in terms of this new paradigm. The human brain is unique in the universe. The unfathomably complex fabric of the brain neuropil rivals the billions of shining galaxies. This course examines the contribution of the Vedic tradition of knowledge to our understanding of brain structure and function, and hence, the potential that lies within every individual. The exponential growth of modern scientific understanding, primarily during the last 50 years, has created a situation in which we have an urgent need to understand the relationship between consciousness and our physiology. This course will present our facts of brain structure and function in light of Maharishi Vedic Science and Raja Raam’s discovery of Veda and Vedic Literature in human physiology. We will examine how our brain constructs reality at every moment and how, from Vedic Science, the transcendental field of life, the home of all the Laws of Nature, is the source of these myriad physiological impulses seamlessly orchestrated to produce what we call human experience. We will study how the experience of unboundedness, the Self of every

individual, can transform our physiology and awaken the total creative potential of the brain in enlightenment, the birthright of every human being. (4 credits)

PH 120 Introduction to Modern Psychology and Human Development: Awakening the Full Potential of the Human Mind

This course is designed to give the student a basic understanding of the psychology of human behavior. The student will be exposed to terminology, principles, and theories of modern psychology. We will track the major historical steps of progress toward theoretical understanding of levels of mind and applied practices for higher human development. (4 credits)

PH 260 *Maharishi Self-Pulse*SM Reading: Measuring the Impulses of the Body's Intelligence and Restoring Balance in the Physiology through the Touch of Three Fingertips

Self-Pulse Reading is the most ancient and most natural means of determining the level of balance or imbalance in the mind and body. This course presents Maharishi's revival of this ancient technology to determine the state of the inner intelligence of the body. Everyone should learn pulse reading to maintain his or her own health. Pulse reading allows one to detect imbalances early, before they manifest as disease. Pulse allows one to precisely determine where the imbalance is and how to restore balance. Furthermore, pulse is therapeutic in itself. Just taking the pulse increases the balance in the pulse and therefore the balance of the whole mind and body. Taking the pulse enlivens the connection between mind and body, consciousness and matter. (4 credits)

PH 262 Diet, Digestion, and Nutrition: Imbibing Intelligence from Food and the Environment — Enlivening Strong Digestion and Selecting a Diet Ideally Suited to the Individual

Diet, digestion, and nutrition are fundamental to health. How we metabolize food and drink directly affects the strength, vitality, immunity, and longevity of the physiology. In this course, detailed knowledge of the influences of foods on the physiology is described. Also the influence of consciousness on the process of digestion and nutrition is discussed carefully. Different foods are categorized according to their influence on the three principal governing qualities of intelligence in the body: communication and movement, transformation, and structure. The balance of these three principles determines the balance, strength, immunity, and health of the body. And that balance is greatly influenced by the food that is taken, and the state of awareness of the one who is eating. This course provides very practical knowledge of what to eat, when to eat, and how to eat to maintain or restore perfect balance. (4 credits)

PH 263 Maharishi YogaSM Asanas: Vedic Exercise to Enliven Mind-Body Coordination to Support Pure Awareness, the State of Yoga

This practical course presents the knowledge and experience of enlivening the unified state of consciousness, or Yoga, through the physiological approach of Yoga Asanas. Maharishi has revived the essential understanding that Yoga means unified level of consciousness or Transcendental Consciousness, and that Yoga, one of the 40 aspects of the Vedic Literature provides the technologies to unfold that experience. The physical postures of Yoga Asanas are traditional positions that enliven the connection between mind and body, consciousness and physiology. When done properly, *Maharishi YogaSM* asanas help dissolve stress and give the experience of settledness and expansion in the direction of the experience of pure consciousness, or Yoga. This unique practical course includes regular practice of *Maharishi YogaSM* asanas as well as the understanding of their specific effects on the mind and body. (4 credits)

PH 350 Maharishi Ayurveda Wellness Consultant Training: Learning How to Guide Clients to Wellness and Health

This is a course to train Maharishi Ayurveda Wellness Consultants. Graduates of the program will be able to consult with clients, family, and friends, helping them achieve higher levels of health and wellness through Maharishi Ayurveda.

The course will provide knowledge of Ayurvedic anatomy and physiology as well as the understanding of the role of consciousness at the basis of physiology. Students will understand and apply the knowledge of mind-body types, or individual constitution and well as the dietary and lifestyle origins of imbalance. Ayurvedic pulse reading will enhance students' ability to detect the level of imbalance. This will lead to understanding how imbalance has arisen and the means to restore balance.

Students will gain knowledge of how to restore balance with herbs, diet and nutrition, aromatherapy, *Maharishi YogaSM* asanas, and other Vedic technologies. Protocols for common imbalances will be given, as well as case workshops. Students will also learn how to obtain and retain clients in their wellness consultant practice. (4 credits)

Prerequisite: PH 260

Note: The course is designed to train individuals to advise others in developing a personalized approach to health and wellness based on the principles of Maharishi Ayurveda. Regulations regarding health care practice and professional licensure standards vary by state and country. Course participants should be familiar with the laws of the jurisdiction in which they intend to be active, to ensure that the scope of their activities does not violate regulations regarding health care practice. Participants who successfully complete the course will receive certification as Maharishi Ayurveda

Wellness Consultants; however, this credential does not confer professional licensing status and Maharishi University of Management makes no representations regarding its economic or other value.

PH 380 Research Methods

This course introduces the knowledge and objective skills indispensable to scientific research. Topics include: the scientific method, logical and practical considerations in experimental design and data acquisition, procedures for conducting literature reviews, selection of research topics, research ethics, and practical research aids such as computer-assisted data analysis. Particular emphasis is placed on clinical research design, including proper choice of control subjects and the prevention of bias in subject selection. (4 credits) *Prerequisite:* MATH 153

PH 382 MCAT Preparation

The Medical College Admission Test (MCAT) is a standardized national exam required for entrance to medical school. In this course, students will have the opportunity to integrate all of their learning from the Pre-Integrative Medicine track and take practice MCAT exams. (4 credits) *Prerequisite:* completion of the biology, general chemistry, physics, organic chemistry, and biochemistry courses is recommended but not required.

PH 398 Internship: Expanding the Knowledge of Physiology and Health in the Field

Students observe and work in Maharishi Medical Centers or medical laboratories, schools or health care facilities in various aspects of health care, research, clinical operations patient care, health education, etc. (4 credits — may be repeated for credit) *Prerequisites:* consent of the Department faculty and the Academic Standards Committee.

PH 399 Directed Study: Gaining Total Knowledge through Self-Referral Education

(variable credits) *Prerequisite:* consent of the Department faculty.

Graduate Courses

PHYSI 700 Dissertation Proposal Preparation

For students with an MS in Physiology; an M.D., D.O., or N.D. degree; or certification as a nurse practitioner, physician assistant, or any equivalent health-professional training only. Each student selects a dissertation committee and submits a dissertation topic to the graduate faculty for approval. Following acceptance of the dissertation topic, the student prepares the dissertation research proposal, which is evaluated by the dissertation committee. (3 credits — may be repeated for credit) *Prerequisites:* PhD candidate status and consent of the dissertation advisor.

PHYSI 701 Dissertation Research

This course is for students with an MS in Physiology, an M.D., D.O., or N.D. degree, or certification as a nurse practitioner, physician assistant, or any equivalent health-professional training only. Students conduct original research and prepare their dissertations during their third and fourth years in the program. Any changes in dissertation topic must be approved by the dissertation committee. (0.5–2.5 credits — may be repeated for credit) *Prerequisites:* approval of the dissertation proposal and consent of the dissertation committee.

DEPARTMENT OF SUSTAINABLE LIVING

FACULTY

- David Fisher, Ph.D., Chair, Associate Professor of Botany
- John Collins, B.S., Instructor of Sustainable Living, Associate Chair
- Lonnie Gamble, B.S., Assistant Professor of Sustainable Living
- Stacy Maurer, Ph.D., Assistant Professor of Sustainable Living
- Travis Cox, M.S., Instructor of Sustainable Living
- Diana Krystofiak, B.A., Instructor of Sustainable Living
- Mark Stimson, Instructor of Sustainable Living, Sustainability Coordinator
- Jesse Dann, Ph.D., Adjunct Professor of Sustainable Living
- Elaine Ingham, PhD., Adjunct Professor of Sustainable Living
- Chris Bell, J.D., LL.M., Adjunct Instructor of Sustainable Living

INTRODUCTION

The Department of Sustainable Living offers programs at the leading edge of sustainability. In these programs, students learn the most up-to-date knowledge and gain hands-on, practical experience in applying what they learn. Sustainable development is a concept typically referring to entire nations or broad geographical regions. When sustainable development is applied to local communities, the critical problems we face are fundamentally those of human consciousness. They arise when people do not use the full potential of their creativity and intelligence and, as a result, violate Laws of Nature.

Maharishi University of Management is the first university in the world to expand the scope of sustainable living to include the knowledge of how to live in accord with Natural Law — how to avoid creating problems in the first place. This can be done only from the level of consciousness itself. In our study of consciousness we realize that the keys to solving puzzles in nature are the keys to our own consciousness. It is through developing awareness of the true connection between humans and their surroundings that we will see lasting progress in sustainability and the quality of the environment.

The Sustainable Living major builds an understanding of how to design and maintain communities that meet the needs of people and the environment so abundantly that they function indefinitely. It involves knowledge of the ecology of living systems with implications for sustainability in the areas of technology, agriculture, architecture, and landscape design, as well as in personal growth and evolution, social interaction, and sustainable business practices.

Students in this major must take at least 24 credits in core courses, 24 credits of eligible electives, and 8 credits in a summative project.

Programs Offered

- B.S. in Sustainable Living, which prepares students for careers in sustainable community development and environmental coordination, or further study and research
- Minor in Sustainable Living, which provides students with a practical foundation for understanding the principles and practices of environmental design for communities

SPECIAL FEATURES

- In response to critical pressure on our planet's natural resources, emphasis is on pragmatic skills and knowledge that support the provision of sustainable energy, food, water, waste services, and the development of essential public policy that underlies the ubiquitous provision of these services. The widespread adoption of regenerative technologies depends on the development of a new and more holistic worldview – one that is rooted in an understanding of natural systems, humans' place in them, and the development of non-exploitive, cooperative relationships among humans and between humans and nature. We need a fundamental change in the philosophy and theory that guides human's relationship with each other and the rest of nature. David Korten calls the old exploitation and extraction based worldview the Empire story, and the new cooperative worldview Earth Community. At Maharishi University of Management, the experiential basis of a change in worldview to Earth Community is the simple, natural and effortless experience of being provided by the practice of the Transcendental Meditation technique. Regular meditation combined with dynamic activity in daily life leads to the development of higher states of consciousness, making the new worldview not just an intellectual idea but a lived reality. In addition to the outer pragmatic skills necessary for physically designing and building a sustainable world, our program provides the inner foundation for the creation of a new outer world. This inner foundation includes the development of consciousness and the supporting intellectual understanding about the fundamental philosophy and social, political, and economic theory underlying this new world view.
- Students can earn up to 16 credits of internships in on-the-job training in sustainable agriculture, renewable energy and green building organizations environmental and other non-profits, green business, and many other venues that provide practical experience in selected areas of interest.

- Academic credit may also be earned for successful completion of professional certification courses in Building Biology and Permaculture Design, as well as for Resnet Energy Rater Training, and AutoCADD.

DEPARTMENTAL REQUIREMENTS

To graduate with a B.S. in Sustainable Living, students must successfully complete all general requirements for the bachelor's degree. (Please refer to "Degree Requirements" in "Academic Policies.")

Graduation Requirements for the Bachelor of Science Degree in Sustainable Living

Note: Those who began their Sustainable Living degree before Fall 2009 have slightly different requirements should see their advisor

- MATH 170 Mathematics for Sustainable Living

The requirements for the major are 56 credits of course work as follows:

24 credits of core courses

- SL—G100 CCTS Understanding and Advocating Sustainable Living or SL—G202 Critical Thinking
- SL—B101 Sustainability, Buildings and the Built Environment
- SL—E101 Energy and Sustainability
- SL—G101 Permaculture Design
- SL—G201 Ecology
- SL—P101 Global Sustainable Environment

24 credits of electives

Including at least 4 but no more than 16 credits of Sustainable Living Internship. Students can spread out their elective credits over any of the elective courses, or they can concentrate four of them in Sustainable Living tracks. (Note that there is a limit of 16 credits of internships plus directed studies towards an undergraduate degree. Students can take additional credits of internship, but it won't count toward their degree.)

Remainder of electives can be any Sustainable Living courses, or from the following other courses:

- FA 201 Art in Nature
- FA 205 Principles of Design
- FA 460 Design and Sustainability Seminar
- FA 461 Design and Sustainability Studio
- LIT 370 Literature and the Environment

- MC 260 Digital Arts for Sustainable Living
- MC 383 Web Design and Web Animation
- MGT 200 Principles of Business Success
- MGT 432 Entrepreneurship Project
- MVS 240 EEG, Brain, & Enlightenment
- MVS 309 Fundamentals of World Peace

8 credits Sustainable Living Senior Project

A summative project that will apply concepts and skills learned in other Sustainable Living courses. Before taking Sustainable Living Senior Project, it is highly recommended to take Sustainable Living Project Prep, which counts as an elective.

Maintain a 4' x 4' Garden Plot in the Student Garden for One Growing Season Pass Senior Comprehensive Exam on Sustainable Living

Graduation Requirements for the Minor in Sustainable Living

To graduate with a minor in Sustainable Living, students must complete 20 credits in the Sustainable Living core courses from the following:

- MGT 402 Managing for Sustainability
- SL—A101 Organic Agriculture
- SL—B101 Sustainability Buildings and the Built Environment
- SL—E101 Energy and Sustainability
- SL—G101 Permaculture Design
- SL—G102 Consciousness and Sustainability
- SL—G201 Ecology
- SL—G202 Critical Thinking
- SL—G220 Environmental Planning and Landscaping
- SL—G350 Plant Biology
- SL—G402 Green Leadership Adventure
- SL—P101 Global Sustainable Environment

TRACKS

The Maharishi University of Management Sustainable Living program is designed to provide a grounding in the breadth of the entire field of sustainable living. Our goal — to give students the skills to assist in designing, building and maintaining sustainable communities — is ambitious. We want them to develop the ability to rethink every aspect of human endeavor in terms of sustainability. To complement this breadth, we provide depth in key areas through 3-5 course sequences. We call these course sequences tracks. Tracks are a new feature of our program – we have just begun to implement them in the

2010-2011 academic year. Students are not required to take tracks, and courses in tracks are open to students that are not taking the entire track. Students may take as much or as little of a track as desired. However, completion of all courses in a track in the suggested order is designed to yield a holistic level of depth in the subject area that may not be obtained by taking just part of a track. The entry-level course in each track is often an Sustainable Living Program Core Course and is often a prerequisite for higher level courses in the track. Tracks are not designed to provide vocational training leading to a high level job in the field, for example training to be an architect or engineer. For that, we recommend significant further study at an institution specializing in that vocational field.

Below is a listing of tracks and the courses that comprise them. For details on each course including prerequisites, see the list of courses in numerical order in the “Courses” section below. See the Sustainable Living department web site for contact information for faculty in charge of each track.

Agriculture Track

SL-A101: Organic Agriculture
SL-A201: Season Extension
SL-A301: Living Soil
SL-A401: Planning a Sustainable Farm

Sustainability and the Built Environment Track

SL-B101: Sustainability, Buildings, and the Built Environment (also a required core course)
SL-B201: Natural Building
SL-B202: Ecocities
SL-B301: High Performance Green Building

Energy Track

SL-E101: Energy and Sustainability: The Energy Basis of Humans and Nature
SL-E201: Energy Technology I: Solar, Wind, and Hydro
SL-E202: Energy Technology II: Biomass, Geothermal, Transportation, Storage, other misc energy conversion pathways
SL-E301: Modeling and Monitoring Energy Flow

Fundamentals of Sustainability Track

SL-F151: Deep Ecology
SL-F305: Spirituality and Sustainability
SL-F310: Sustainability and Social Justice

SL-F401: Philosophies of Sustainability

Applied Soil Ecology Track

SL-A301 Living Soil

SL-G195 Living Systems

SL-G201 Ecology (core)

SL-G350 Plant Biology

(SL-401 Planning a Family Farm – Highly recommended)

Policy Track

SL-P101: Global Sustainable Environment

SL-P202: Policy for Food Security

SL-P302: Energy Policy for Sustainability

SL-P404: How to Create Social Change

COURSES

SL—A101 Organic Agriculture: Nourishing Civilization through Production of Food Based on Features of Natural Ecosystems — Nutrient Recycling, Biodiversity, Maintenance of Healthy Soils, and Full-Cost Accounting

This course will explore how aligning agriculture with Natural Law can be accomplished using the basic principles of Maharishi Vedic Organic Agriculture such as recitation of Vedic sounds at all stages of food production and the use of Maharishi Jyotish programs to determine the optimal times to plant, perform cultivation techniques, and harvest crops. It also includes general principles of organic agriculture production, such as transplanting, irrigation, fertility, pest management, harvest, storage, marketing, and environmental influences. Specific management requirements for important vegetable and field crops will also be discussed. Students spend approximately half of their time in class learning principles of vegetable production and half of the time applying their knowledge and gaining practical experience in the University's vegetable gardens and greenhouses or other area organic farms. Course fee: \$30 (4 credits)

SL—B101 Sustainability, Buildings and the Built Environment

The built environment consists of all the things that humans build: buildings and the rural, suburban, and urban context in which they are placed. Buildings, the cities they are placed in, and the transportation systems that connect them are the biggest things that humans build. Designing and building them sustainably is one of the greatest challenges facing humanity. This course gives an overview of issues of sustainability in the built environment and the developing solutions –high performance solar powered buildings, natural building, the ecocity movement, reuse of existing structures, urban agriculture, managing water in the urban landscape, turning wastes into resources. We'll also explore how we can use the ancient ideas about orientation and placement of buildings and the design of cities from Maharishi Sthapatya Ved in the design of the contemporary sustainable built environment. The goal is to create a built environment, that, like the natural environment, is regenerative, giving back more than it takes. This course is one of six required core courses in the Sustainable Living program and is a prerequisite to other courses in the Built Environment track. (4 credits)

SL—E101 Energy and Sustainability: The Energy Basis of Humans and Nature

This course explores the role energy plays in sustainability and in the development of complexity and order in nature and in the human economy. Anything of economic value comes from nature or from humans, and both require energy. Therefore, energy is critical to the economy. Energy inevitably loses usefulness as it flows through manmade and natural systems. Sustainability is about regeneration and renewal of opportunity for future

generations. Therefore, renewable sources of energy are essential for sustainability. Students will learn basic energy concepts and their application to sustainability and renewable energy systems. The course will include lecture, readings, films, guest speakers, field trips, and hands-on work. This course is one of the six sustainable living core courses and is required for all courses in the energy track. Lab fee: \$50. (4 credits)

SL—G101 Permaculture Design

Permaculture Design is a system for rethinking and redesigning of every aspect of human endeavor in terms of sustainability. As such, it is a cross-disciplinary design system that involves architecture and building, agriculture, energy, urban and city design, economics and livelihoods, water, and the aesthetic integration of all of these in human settlements. On successful completion of the course, students will receive an internationally recognized certificate. The basic principles of permaculture design were developed by integrating the observation of natural systems, traditional indigenous wisdom, and modern scientific and technological knowledge by David Holmgren and Bill Mollison. Through lecture, discussion, observation, field trips, hands-on learning, videos, slide shows, and handouts, students gain the practical skills and theoretical knowledge to design and implement sustainable systems in harmony with the natural world so participants can understand and apply these methods and skills to their home property and local community. Participants will learn principles and methodologies of sustainable design, how to read the landscape's strategies and tools for urban and rural homesteads, food forests and orchards, greenhouse operation, natural building and alternative energy techniques. This is a foundation course for the entire Sustainable Living program. Lab fee: \$50. (4 credits)

SL—P101 Global Sustainable Environment

Many believe that we currently face a real possibility of collapse in the global environment that supports human civilization and the Earth's other living beings. How much is myth and how much is truth? How do we set about structuring a sustainable living environment that can be maintained on a global scale for all future generations? This course is about the big picture that drives the global sustainable living agenda. It provides a broad perspective on the problems we face as a species. We study what can and should be done to transform the current trends effecting population growth, biodiversity, climate, energy supply and consumption, food and water security and other threats to sustainability. We explore the shift in mind set or consciousness that is needed to take us from regarding the environment and an expendable resource to treasuring it as an entity with which we must live in harmony. This is the policy track core course. Lab fee: \$20. (4 credits)

SL—G102 Consciousness and Sustainability: Connecting Our Continued Existence to the Deepest Levels at Which Nature Operates

Our current way of life has produced unsustainable buildups of pollution, depletion of natural resources, overpopulation, and economic and social distress. If not rectified soon by human-directed correcting mechanisms, our whole system will be corrected by nature, and civilization will collapse. So far, application of mechanisms such as environmental education and legislation, ever more advanced “green” technologies, and global eco-summits have not been enough to pull us back from the brink. Therefore, raising consciousness has emerged as the so-far missing imperative that will bring about true sustainability. But what is consciousness? How can the various definitions of it from different philosophical and spiritual traditions be brought together in a way that will engage as many people as possible? Is consciousness a fundamental driver of sustainability? If so, what are the mechanics by which it will generate a sustainable world? These and more are the questions that will be addressed, and, with co-creative efforts from students, answered in this course. (4 credits)

SL—G103 Local Nature

Through understanding and direct observation, this course will make students more knowledgeable about and in touch with the natural world in, around, and as seen from Fairfield. It will deepen appreciation of both themselves and their environment and re-connect them with the nature that’s all around them. Topics include: geology, earth science, and land use; ecosystems; water sources and phenomena; the effects of fire; a survey of plants, animals and fungi; symbiotic life; microscopic life; and your person as an ecosystem, including the beneficial and non-pathogenic life that lives on, in, and immediately around your body; endangered species in Iowa; and the day and night sky. (Variable credits, 1 per week up to 4 credits)

SL—G105 Physics and Chemistry for Sustainability

This course covers the fundamental principles of physics and chemistry with an emphasis on practical applications in the field of sustainability. Emphasis is placed on leading the students to an awareness of how a knowledge of science will enhance their preparation for careers in sustainability. The principles of physics that are covered include energy and power calculations, thermodynamics and heat loss calculations, electromagnetism, conservation laws and vibrations and waves. The basics of general inorganic and organic chemistry are also covered. Topics include: the periodic table, atomic structures, chemical bonding, stoichiometry, behavior of gases and solutions, acids and bases and important biological molecules. The course includes laboratory activities. (4 credits)

SL—G109 Natural Beekeeping

Organic honeybee keeping is an important art and science of sustainable living, and even more so today. Students will learn about the Biodynamic beekeeping method, based on Rudolf Steiner's teaching, which is holistic method that emphasizes the well-being of the bee colony as a super organism and its natural life cycle, rather than maximizing honey and pollen production. The first three days are taught by Gunther Hauk, who has over 30 years of experience in this type of beekeeping and is the founder and co-manager of Spikernard Farm, a 610-acre honeybee sanctuary in Illinois. Students will learn how to set up and manage a small Biodynamic apiary, assemble hives, become familiar with special terminology and practices, harvest honey, setting up an organic certifying agency, and more. (4 credits)

SL—E110 Energy Projects Course

In this course, students will gain hands-on experience with home and community-scale renewable energy systems. There will be a strong emphasis on developing practical skills in four fundamental areas of local energy: creating the next generation of Bio-diesel processing equipment, building Solar Photovoltaic panels using inexpensive purchased silicon cells and recycled glass, understanding the workings of small wind turbines, and exploring options for electric transportation. (4 credits)

SL—G110 CCTS: Understanding and Advocating for Sustainability—The Individual as the Unit of Sustainability

Passing along the awareness that the sustainability movement is the future of the human project is the key to *any* possible future. Therefore, this introductory course is designed to give students the experience of diving right in to the discipline of Sustainable Living. Students will read from a variety of books and articles and engage in creative exercises that will allow them to discern key concepts in sustainability. Students will have the opportunity to open to the field of all possibilities by going through the process of evaluating their own beliefs alongside the belief systems of a variety of key players in the field of sustainability. Also, students will learn vital skills of assessing and listening that will help them refine their communication of key concepts, values, and beliefs in an intelligent and effective manner. At the end of this course, students should be able to say what they believe, express why, and do so in a way that invites participation rather than confrontation. (4 credits) *Prerequisite:* taken during students' first semester, or with consent of the Department faculty

SL—G111 Basic Training in Becoming an Organic Inspector

Learn the basics of performing an Organic Inspection from a current Organic Inspector who has conducted over 2000 organic audits in the last twelve years. Organic Inspectors audit producers of food and other consumable goods to ensure production processes

genuinely follow Organic Standards as mandated in the USA, Japan, Canada, and the European Union. This Course will include travel to conduct two mock audits: one Process Production and one major Distributor of Organic Foods. (2 credits)

SL—G130 Materials, Tools, and Methods for Sustainability

This course will provide students with a comprehensive background in the nature and properties of our planet's material resources and how they may be used in sustainable and ecologically friendly ways. Topics include: identifying different types of wood and knowing the best types for various purposes (e.g., why hickory is best for tool handles and cedar for shingles), understanding the differences between different types of metals and knowing when and where to use them (e.g., why it might be a bad idea to use brass next to aluminum), becoming expert in the use of tools, measuring instruments, methods of fastening and joining things, planning projects, and discussing the role of fine craftsmanship and consciousness-imbibed goods in the coming age. Lab fee: \$60. (4 credits)

SL—G139 Sustainable Living Workshop: Transforming Natural Law into Useful Application

Manifestation of sustainable methodologies for immediate use is the purpose of this repeatable course. Students will work individually or in teams to build and implement technologies such as biodiesel production, photovoltaic panels, hydrogen electrolyzers, biomass heating units, methane digesters, or fuel cells. Projects can also include assisting with sustainable building construction, or production of websites or videos to display real-time building/performance indicators. (4 credits — may be repeated for credit)

Prerequisite: SL—G101

SL—G140 Earth Systems: How Global Geo-Physiology Shapes the Evolving Biosphere, Driven by Its Internal Structures and Processes and Interacting with Life, Air, and Water

In this course, we explore Earth, a dynamic system evolving since its birth 4.6 billion years ago (deep time). Earth is a whole greater than the sum of its parts — rock, water, air, and life — subsystems that exchange matter and energy and pulse in cycles, powered by thermal energy from Earth's interior and by radiant energy from the sun. These inner and outer forces power Earth's living surface in the same way that we experience life as a balance between our inner desires and outer demands from society. Plate Tectonics explains how the interior of the Earth convects, moves surface plates along three types of boundaries, and shapes the planet's surface, a unifying paradigm for mitigating natural disasters (e.g., volcanoes, earthquakes, tsunamis), exploiting mineral and energy resources, and understanding the advent and evolution of life. At the cross roads of climate research, classical geology, and modern genetics, Snowball Earth narrates the tale

of scientists developing a theory that explains why the Earth completely froze over and how these climate disasters may have triggered the evolution of life. To test the Snowball hypothesis with hands-on projects, we take a 10-day field trip to Canada and explore unique island ecosystems for their geologic features (rocks types, folds and faults, volcanic conduits, exploitable resources, glacial scouring and deposits, springs, etc.). Field projects stimulate powers of observation, spatial reasoning, 3 visualization, and 4D synthesis — life skills essential to sustainable living. In a final paper, students integrate their fieldwork with the readings and themes of sustainability. Lab Fee: travel expenses, updated yearly. (4 credits) *Prerequisite:* current passport: trip to Canada

SL—G145 Social and Organizational Transformation for Sustainability

The course covers how to understand and model human systems and where to get leverage in effecting social/organizational change. It gives training and experience in leading edge organizational development tools and promotes practices of personal development that make individuals more effective agents of change. (4 credits)

SL—G150 Ideal Human Relationships: The Basis of Harmonious Relations is Connecting Self-Knowledge with the Experience of the Self in Others — Giving is the Basis of Receiving

From friendships to business partnerships, marriages to parent-child connections, society is a network of relationships. This class will explore the various categories of human relationships and how each can be mutually rewarding and sustainable. Students will learn how to draw on their own inner reservoir of energy to give the maximum to others without being overshadowed by circumstances. We will also look at conflict resolution and how to turn perceived enemies into friends. (4 credits)

SL—F151 Deep Ecology

The main argument in environmental ethics is between anthropocentric (human centered) and non-anthropocentric ways of being in the world. For people who advocate non-anthropocentric philosophies, it is of utmost importance for the human species to begin to behave in less selfish ways. Deep Ecology is the main non-anthropocentric school of thought and though founded in the 1970s, it draws on sources as vast in time and discipline as Taoism, Native American religions, and Quantum Physics. This course will study the innovator of Deep Ecology, the late Norwegian philosopher Arne Naess, and trace the movement up to its current incarnations in America and elsewhere, specifically centering on the Transpersonal Ecology of Warwick For as it pertains to Maharishi's teachings. This course will spend time in nature with the earth as our teacher, culminating in a camping trip. Finally, the course will show the close correlation of Deep Ecology with the concept of Natural Law and Maharishi's Vedic principles. Lab fee: \$100. (4 credits)

SL—G195 Living Systems: How Life’s Dynamic Intelligence Applies the Principles of Biochemistry, Cell Biology, and Genetics to Uphold Self-Organization, Maintenance, and Evolution of Life

Fundamental to all life are basic functions that uphold self-organization, maintenance, and evolution. This course covers aspects of biochemistry, cell biology, genetics, and evolution, with emphasis on the expressions of intelligence, order, and integration found at different levels of biological organization. (4 credits)

SL—G200 Building Biology: Learning to Restore the Balance between Nature, Ourselves, and the Built Environment

This course examines the link between building practices and occupants’ health and well-being. Founded in Germany over 30 years ago, Building Biology not only encompasses sustainable and green practices, but also goes beyond them. It focuses on “building for life,” or how to optimize living conditions by applying healthy building and remodeling principles to living spaces. Students will find out how current construction practices impact the health of occupants and will gain skills to identify, analyze, and solve problems dealing with electromagnetic radiation, high- frequency radiation, indoor air quality, and water quality. They will also learn about natural building and remodeling practices through home inspections, case study reviews, and teleconferences with Building Biologists from around the country. The course looks at healthy buildings from different perspectives: a) elements — how air, water, matter, and energy impact the indoor environment, including health risks and remedies, b) design — what design features promote a healthy building, and c) standards — applying Building Biology Healthy Home Standards. (4 credits)

SL—A201 Season Extension

Learn how to extend the season growing, harvest produce throughout the winter and start transplants using unheated hoopouses. Topics include: choosing the hoopouse location, hoopouse design, hoopouse layout, costs, growing transplants, natural insect and disease control in hoopouses, nutrition, food system sustainability, and more. Class will include field trips to local hoopouses and some hands on activities. Course fee: \$60 (4 credits)

SL—E201 Renewable Energy Technology I: Solar, Wind, Water

On earth, solar energy is the only energy source available to renew and offset the inevitable decline in usefulness as energy flows through manmade and natural systems. Sustainability is about regeneration and renewal of opportunity for future generation, and therefore switching from fossil fuels to solar energy is essential for sustainability. Direct solar (thermal and photovoltaics), wind, and flowing water are the core technologies

necessary to power a sustainable economy. This course gives students the theoretical and practical background necessary to design and evaluate renewable energy technology that use solar energy directly (solar thermal and PV) and solar energy in the form of wind and flowing water. The course will include lecture, readings, films, guest speakers, field trips, hands-on work, and a team project. (4 credits) *Prerequisite:* SL—E101, MATH 170, or permission of Instructor

SL—B201 Natural Building

Natural building is the art and science of using lightly processed, natural materials to create beautiful, durable, energy efficient structures. Students will learn how to combine traditional materials with contemporary ideas about sustainability. Topics include: the design process, materials and methods (straw/fiber, clay, earth, stone, wood and their combinations).building science for natural building, air and moisture flow, energy considerations., siting and zoning Course will include hands on work in a variety of materials, and may include the construction of a structure. Lab fee: changes yearly. (4 credits) *Prerequisite:* SL—B101

SL—G201 Ecology: Observe How Living Organisms Maintain Perfect Orderliness in Their Physical Environment by Efficient

This course integrates the core principles and practical applications of ecology from the perspective of human consciousness. Students will learn how the Laws of Nature evolved the biosphere to provide a support system for the miraculous complexity of life. They will use their deep experience of consciousness to appreciate the power and majesty of nature, the primal forces that manifest creativity and intelligence in the universe. The course will expose the processes that make life what it is: so much more than a series of intricate, dynamic structures interlinked through constant flux and transformation. The course covers ecosystems functioning, speciation and interactivity, social interaction, natural selection, and adaptation in nature. Lab fee: \$132. (4 credits)

SL—B202 Ecocities

Cities are the biggest things that humans build. The car centered urban, suburban, and rural patterns of human settlement that have developed in North America are a byproduct of the era of cheap fossil fuels, and waste resources and human energy. This course will explore the emerging principles of sustainable city design. Topics include: historic perspectives, the ecocity movement, the effect of density on sustainability, land use and zoning for sustainability, new urbanism, urban agriculture, and more. (4 credits) *Prerequisite:* SL—B101, or permission of instructor

SL—G202 Critical Thinking: Accessing the Field of Pure Knowledge and Infinite Organizing Power as the Basis of Action, Achievement, and Fulfillment

Effective thinking is the extreme opposite of jumping to conclusions. This course will teach students to analyze a situation and understand its circumstances. They will learn to focus on the most useful information and then use it in a fair and logical way. The class will also explore argument analysis, media literacy, and legitimate alternatives to Western “rational” thought. Much of the class time will be devoted to exercises that center on important issues in the sustainability movement as well as in one’s own life.

Lab fee: \$35. (4 credits) *Prerequisite:* WTG 192

SL—E202 Renewable Energy Technology II: Biomass, Geothermal, Fuel cells, Batteries, Power Electronics, Transportation technologies, other misc energy conversion pathways

This course continues the exploration renewable energy pathways and the technologies that allow their utilization that is begun in Energy 201. Energy Technology 201 covers the core technologies of solar electric, solar thermal, and wind. This course covers biomass, geothermal energy, fuel cells, batteries, power electronics, transportation technologies, and other miscellaneous energy conversion technologies. On earth, solar energy is the only energy source available to renew and offset the inevitable decline in usefulness as energy flows through manmade and natural systems. Sustainability is about regeneration and renewal of opportunity for future generation, and therefore the use of solar energy is essential for sustainability. The radiant energy of the sun transforms into a wide variety of forms — wind, flowing water, biomass, heat, geothermal — before it eventually re-radiates back into space as low temperature heat. This course continues the exploration of technologies for creating a renewable energy based economy. It is recommended that students take energy 201 first, but it is not required. The course will include lecture, readings, films, guest speakers, field trips, hands on work, and a team project. Course fee: \$100 (4 credits) *Prerequisite:* SL—E101, MATH 170, or permission of instructor

SL—P202 Policy for Food Security

Food security is possibly the most critical sustainability issue facing humanity in the short to medium term. As the world’s population grows and developing countries move up the food chain, demand for food is growing fast. At the same time government policies for food production, distribution and retailing tend to favor the unsustainable practices of agribusiness. This course studies the way forward to create state, national and international policies that can deliver plentiful, nourishing, non-toxic food for the whole world, whilst also enhancing biodiversity. Course fee: \$30 (4 credits)

SL—B203 Natural Building

Natural building is the art and science of using lightly processed, natural materials to create beautiful, durable, energy efficient structures. Students will learn how to combine traditional materials with contemporary ideas about sustainability. Topics include: the design process, materials and methods (straw/fiber, clay, earth, stone, wood and their combinations).building science for natural building, air and moisture flow, energy considerations., siting and zoning Course will include hands on work in a variety of materials, and may include the construction of a structure. Course fee: \$50. (4 credits)

Prerequisite: SL—B101

SL—G203 Plant Taxonomy: How the Description, Naming, Identification, and Classification of Plants is Grounded in Their Intelligence and Evolution

The classification of plants ultimately makes use of all that is known about their structure, physiology, genetics, and ecology to arrange them into a logical system for identification and study. This course, which emphasizes the local flora, develops skills in observation and interpretation to name, identify, and classify vascular plants according to evolutionary relationships. (4 credits)

SL—G204 Climate Science and Solutions

Climate change is considered by many to be one of the key threats to a sustainable future. Yet few people study this fascinating subject in any detail. In this course, students learn the latest developments in the basic science and facts of climate change. Contentious areas and ranges of opinion will be evaluated in their socioeconomic context and a full range of possible solutions to climate change will be studied, such as: elevation of world consciousness, improved global stewardship, increased energy efficiency, renewable energy, improved ecosystem management, agriculture and forestry. The course also addresses intergenerational ethics and economics along with mitigation of and adaptation to climate change. (4 credits)

SL—G205 Trees and Sustainable Forestry: Cherishing and Managing the Earth's Largest Organisms

It's hard to imagine life without trees. Not only do they enhance and support human culture, they define everything from micro-ecosystems to biomes. Discover in this course how trees evolved, how they grow and produce wood, and how they form partnerships with myriads of other organisms. Become skilled at identifying trees by their leaves, flowers, bark, and winter twigs. Learn how to prepare herbarium sheets of tree leaves, create your own bonsai tree to take home, and even how to climb trees. Find out how trees work collectively as forests – their biodiversity, structure, and ecology as well as the best ways to manage them sustainably for their intrinsic nature while providing needed lumber, recreation, and aesthetic value for human use. To illustrate this knowledge,

students will enjoy field trips to local forests as well as the Missouri Botanical Garden and the Shaw Nature Reserve outside St. Louis. Finally, students will gain deep insights into the mystique and spirituality of trees, and how great authors have appreciated trees in literature. They will come away from this class with a much richer awareness, practical knowledge, and appreciation of trees and forests. (4 credits)

SL—G206 Water Management Technologies

This course gives students the theoretical and practical background necessary to design and construct sustainable water and wastewater management systems. These are small scale, decentralized and community run systems that harness the inherent intelligence of nature and strengthen the health of the watershed as a whole. These systems include water collection, distribution, purification and storage as well as wastewater and sludge collection, treatment and reuse. Students will gain the skill to design constructed wetlands, living machines, bioswales and rain water catchment as well as other sustainable systems. Hands-on work will include constructing a biosand filter, a solar still, as well as water sample collection and testing. (4 credits)

SL—G207 Sustainable Water Resource Management: Water and Sustainability; Problems and Solutions to Water Quality and Scarcity Worldwide

Fresh water resources play a key role in any sustainable community and are pivotal to the success of long term sustainable development. In this course, students will learn about the problems plaguing water resources worldwide and will acquire the skills to implement appropriate solutions. Students will learn how to put together integrated water management plans including analytic tools to assess water supplies and demands, analyze water qualities, and implement sustainable water management practices. These practices include water conservation, pollution protection, and the use of alternatives to fresh water resources such as rainwater harvesting and wastewater reclamation. The course will also look into the local and global socioeconomic aspects associated with the world's water resources. Lab fee: \$65. (4 credits)

SL—G210 Artisanal Foods and the Slow Food Movement: Case Studies in Alternatives to Economic Globalization

Artisanal foods are lovingly handcrafted with traditional methods, and the Slow Food movement promotes the concept as a response to the fast food industry. More than just preparing food slowly, artisanal food is all about quality, attention to detail, uniqueness, avoidance of synthetic ingredients, minimal processing, and sustainability in a way that enhances the pleasure and sensuality of life. This course will explore food and culture, the local production of foods that have a 'taste of place', and the creation of a local food economy. Using examples from France and Italy, it will examine public policy and marketing that makes artisan foods a normal part of life in these countries. Finally,

students will cook and share meals that reflect what they are learning in class. The overall result will enrich their knowledge of quality prepared food as it applies to both the home and the commercial environment. Lab fee: varies year to year. (4 credits) *Prerequisite:* SL—G101, or permission of instructor

SL—G220 Environmental Planning and Landscaping: Applying Natural Law to Sustainable Landscapes to Integrate Energy, Economy, Transportation, Mass Culture, and Food Production Systems

A built environment should have the stability, flexibility, diversity, resilience, and beauty of a natural ecosystem. More than this, it should align our consciousness with all the Laws of Nature. Students will study the factors that go into a sustainable environmental plan, including consciousness, conceptualization, topography, climate, water management, energy, economy, transportation, mass culture, stakeholders, and food production systems. The course will combine classroom and project-based learning to ensure integration of the core principles and practical skills. Students will learn practical project management skills and create real environmental plans for existing tracts of land. The course will combine the use of Vedic and Permaculture principles to provide the ideal environment for people to grow in consciousness and fulfillment. (4 credits)

Prerequisite: SL—G101

SL—G225 Applied Systems Thinking: Drawing on Total Natural Law to Organize Divergent Perspectives and Promote Interconnectedness and Unity

A systems approach can be helpful in everyday situations involving people and technology where it is hard to know what to do because of a complex web of conflicting views and needs, a high degree of interconnectedness, and a high degree of uncertainty. This course offers solutions not by providing formulas or rules to follow, but by providing ways to understand and systematically work with situations that develop over time. This ultimately means operating more in accord with Natural Law. Learning to think and act systematically thus requires a fundamental change in patterns of thinking and behavior, which this course is designed to create in the student. Since systems concepts can be difficult to appreciate until applied in a variety of situations, the course structures proficiency in systems thinking by implementation of real-life solutions to problems of the student's choice. (4 credits)

SL—G230 Sustainable Living Internship: Experiencing On-the-Job Application of Natural Law at Environmental Places of Business

This course offers students the opportunity to work on farms, at green companies, or with environmental organizations and apply knowledge from the classroom to real-life situations where sustainability is at the forefront. Venues range from the Maharishi University of Management campus and farms to the Fairfield area, other areas of Iowa

and out-of-state locations. While all internship credits may be taken at one location, it is advisable to distribute the internships among several places of employment to get the broadest possible experience, greatly adding to a student's sustainability credentials and post-graduate employment potential. (4 credits per month, maximum of 12 credits toward the Sustainable Living major) *Prerequisites:* SL—G101 and consent of instructor and the Academic Standards Committee

SL—G240 Exotic Tropical Fruit Production: Enjoying the Fruit of Tropical Laws of Nature

Tree crops have always been a major part of human diet and culture. Tropical fruits are especially rich in diversity and present us with almost unlimited potential for food, medicine, raw materials and crafts, beauty, and a wide range of environmental stewardship. This course, held in a 150-acre organic farm in Homestead, Florida, will explore every aspect of organic cultivation and marketing of exotic tropical fruits, the plant-animal-soil connection, ecological pest and disease control, and the trials and rewards of tropical farming. It also includes field trips to local fruit related sites such as the Spice Park, Fairchild Tropical Gardens, and Kampong, lectures by experts in tropical agriculture, and hands-on experience in the propagation, tending, and harvest of organic tropical fruits, vines and bamboo. Lab fee: changes year to year. (4 credits)

SL—G250 The Art and Science of Fruit Culture

Fruit science and culture is referred to as pomology, which is a congenial blend of science and art. This course will present the scientific principles and horticultural practices used in growing fruits and nuts in the temperate zone regions of the world. Students will learn to select fruit varieties that are well suitable for various ecological zones of the world. Thorough planning of the fruit planting will prove that “well begun is half done.” Students will learn how the horticultural practices used to achieve a productive balance in the fruit planting and the physiology of the fruit plants influence the cycles of rest and activity within the fruit farming system. Sustainable organic production practices will be highlighted. Students will create a scalable production plan for fruit growing that will include all aspects of fruit growing including, suitable varieties for the mid-West region, plant protection practices for pest management using the organically approved list of materials (OMRI), and a flow of work schedule that includes moving the produce to market. (4 credits)

SL—G260 Energy Auditing

This is a course to certify students in energy efficiency home auditing, the most basic principle and foundation of sustainable living. Students will learn how to apply the principle of doing less and accomplishing more to home energy efficiency. Instruction will include class time, and hands on training of necessary equipment to do energy audits.

Field training will include full energy audits from start to finish. Upon completion of the course, students will have a deeper understanding of the various systems within a home, and how they work together. The final exam will be the official Resnet “Field Rater” test. Lab fee: \$130 for book and field rater test fee. (2 credits)

SL—G270 Design, Innovation, Sustainability: An exploration of the creative process in the context of team hands on design/build of sustainable systems

This course will explore teamwork and the creative process through the design and construction of sustainable technologies. Students will work in teams to design, build, and implement technologies. Past projects have included biodiesel production, photovoltaic panels, hydrogen electrolyzers, biomass heating units, methane digesters, or fuel cells. We’ll look at case studies from famous design/build teams, like Lockheed’s Skunkworks team. Projects can also include assisting with sustainable building construction, or production of websites or videos to display real-time building/performance indicators. (4 credits)

SL—G280 Ethnobotany: How Indigenous Peoples Use Plants for Culinary, Spiritual, Medicinal, and Other Purposes to Maintain Traditional Connections with Natural Law

Plants have met a large proportion of man’s physical, emotional, and spiritual needs for ages and continue to do so today, though often in new and less obvious ways. The broad scope of such use is the subject of this course, covering not only food and shelter but also clothing, herbs and spices, ornamentation, medicine, soaps, cosmetics, rope, and rubber, as well as artistic and spiritual uses. (4 credits)

SL—G298 Ecovillages and Intentional Communities: Greening (and Challenging!) the Wider Culture

In this course, students will learn about designing and living in ecovillages and intentional communities. Areas of focus will include how successful communities purchase, finance, and own property; internal community finances and community-based social enterprises; ecovillages and the ecocity movement; the transition town movement; community group dynamics and & dealing effectively with community conflict; and “creating community where you live now” in existing neighborhoods or small towns. These areas will be explored through presentations from experts on living in and designing intentional communities, field trips, and a cumulative final group project. Lab fee: \$40. (4 credits)

SL—G300 Local Economy Networks: Engaging Local Natural Laws to Establish a Strong Local Economy

Does an economy based on consumption of local production have a place in a world increasingly preoccupied with globalization? A growing number of economists think it does. This course will explore current thought about creating community wealth through the local provision of basic products and services such as energy, food, water, building materials, clothing, and artisan products. Students will research the local community to develop a wiki that showcases local economy solutions like the Buy Fresh, Buy Local campaign. This hands-on work, combined with the foundational knowledge of local economics, will thus equip them with the know-how for setting up a local network vital to maintaining a sustainable community. (4 credits) *Prerequisite:* SL—G101

SL—A301 Living Soil: Pure Consciousness Expressing Healthy Plants Through Vibrant Soil

This course presents a journey into the soil beneath our feet — the true “Last Frontier” — so close, yet so poorly understood. Students will delve into the world of the below ground and learn what all those billions of creatures are doing down there. Precisely because people did not understand healthy soil, “modern” chemical agriculture slowly but surely destroyed the very basis of healthy crop production. In this course, students will learn how and why modern agriculture fell into the trap of chemical dependency, and how to grow bumper crops that contain nutrients in the forms, amounts and balances that humans require. They will also learn which organisms are needed in soil for different plant species and in different climates, and how to see them and monitor their presence. The course also teaches how to easily grow one’s own soil biota and put them back into soil to replenish and revitalize gardens, agricultural fields, orchards, vineyards or their own back yard. Lab fee: \$60. (4 credits) *Prerequisites:* SL—G101 and SL—G350

SL—B301 High Performance Green Building: Shaping the Future with Regenerative Design

Fifty percent of the energy that flows through the US economy is used in buildings. Rethinking the design of buildings is a key part of sustainability. In this course, students learn the basic principles of designing and constructing climate responsive buildings that create more energy and clean water than they use. The emphasis will be on using commercially available conventional building materials, although natural building materials will be introduced. (Building with natural, lightly processed materials is covered in Building 203: Natural Building.) Topics include: the design process, building science, energy, air and moisture flow in buildings, health effects of material selection, building components (foundations, wall sections, roof systems, HVAC, siding etc), the development process, zoning, passive solar/renewable energy, and siting. (4 credits) *Prerequisite:* SL—G101

SL—E301 Modeling and Monitoring Energy Flow

This course gives practical experience in using computers to model energy flow in buildings and renewable energy systems and in systems for monitoring energy flow. Students should have a good understanding of the physics of energy flow, energy flow in building, and renewable energy systems. Software may include RESNET energy modeling software, Energy 10, and HEED. Energy monitoring systems will use Onset Computing energy monitoring hardware and Hoboware pro software. Building commissioning will be discussed. Energy modeling software is useful in the design phase of a project and is often required to establish benchmark performance for utility rebates and other incentives. Energy monitoring systems are useful for making building energy use visible to occupants, and for verifying and troubleshooting performance of energy systems. (4 credits) *Prerequisites:* SL—E101, MATH 170, or permission of the instructor

SL—P302 Energy Policy for Sustainability

Powering the future with intelligent energy policies is a key part of humanity's bid for sustainability. This course describes how such a future can be achieved. Students start by researching what policies are currently in place in different countries around the world. Then the course studies the potential of renewable energy to replace traditional energy resources. In the process we will identify the full range of issues surrounding the production, transportation, and consumption of energy globally. This will include reviewing issues concerning social acceptability, environmental impact and risk, and economics. Through the use of case studies and critical thinking, along with a special focus on Iowa, students will also identify and study the ways governments have begun to change local, regional, national, and international policies about these issues. The final project allows individual class participants to research a special area of energy policy that interests them most. (4 credits)

SL—F305 Spirituality and Sustainability

The goal of this course is to expose students to the thinking of some of the leaders in the field of sustainability who feel that there is an important relationship between spirituality and sustainability. Some of these thinkers go so far as to say that this relationship is essential to the project of sustainability so that without understanding spirituality there is no sustainability. This course will explore the relationship of spirit and sustenance in a variety of ways, through readings, field trips and speakers. By interacting with people outside of our community, sometimes in real world situations, students will have the opportunity to see how a person's belief system affects their idea of sustainability and in turn their actions. (4 credits)

SL—F310 Social Justice and Sustainability

Is it possible to have a grossly inequitable society and still have it be "sustainable?" Is "sustainable development" really sustainable if it is undertaken within a context of economic injustice? Are modern western societies and globalization just a new face on an old, unsustainable theme: empire? We will attempt to answer these questions, and raise several others, in this course. This class will explore concepts like "environmental racism" and disciplines like "eco-pedagogy" as it looks at the role that social justice should play within the project of sustainability. We will read authors like Vandana Shiva, David Orr, and Paulo Freire. Also, students will conceive and direct a project that addresses social justice issues within the community of Fairfield. (4 credits)

SL—G310 Sustainable Landscape Architecture: Using the Techniques of Natural Law to Create a Functional, Sustainable Built Environment

The way our built environment looks and feels is a product of human consciousness as manifested through the design and layout of the individual elements of Natural Law. Using the Maharishi University of Management campus as a case study, you will learn how to implement the basic landscaping components of Maharishi Sthapatya Veda design in a way that minimizes the ecological impact of a site while maximizing its ecological value and aesthetic appeal. In the process, you will learn drawing techniques of the discipline, how to read a topographic map and use it to build a scale model, and how to choose appropriate trees and plants for specific locations and purposes. The result will be a deeper understanding of how to create environments that are efficient, beautiful, productive, and enjoyable in a sustainable way. (4 credits) *Prerequisite:* SL—G101

SL—G320 Building a Biodiesel Co-op

This hands-on course will cover three major aspects of building a successful biodiesel cooperative: 1) Finishing the construction of an energy-efficient passive-solar shed to house the operation 2) Setting up renewable energy systems such as solar hot water panels, heat exchangers, and off-grid solar PV 3) Setting up the biodiesel processor and learning how to make fuel from waste vegetable oil. Academic components of the course will include: titration and the chemistry of transesterification, economics, regulations and limitations of biodiesel co-oping, the diesel engine in theory and operation. The course will be limited to six students, with preference given to seniors and students with diesel vehicles. Students will wear appropriate work clothing, especially protective footwear. Sunblock and/or broad-brimmed hats are a good idea for outdoor work. (4 credits)

SL—G324 Basic AutoCAD

Learn fundamental knowledge and skill to create and complete basic 2D drawings with AutoCAD®. Use drawing and editing tools, adding text and basic dimensions and plotting. This rapid-paced course is for anyone who plans to become a regular AutoCAD

user and needs the fundamental skills to create, edit and dimension AutoCAD drawings. This course is ideal for those new to AutoCAD or those who have not used the software for a few years. No previous CAD experience is necessary. Some familiarity with Windows required, some drafting, design or engineering experience may be helpful, but is not required. Lab fee: \$35 (4 credits)

SL—G330 Campus Sustainability and the AASHE Conference

The most convincing college sustainability curriculum is the one students see manifested in the buildings and grounds of their own campus. To that end, students will use this course first to become thoroughly familiar with the sustainability features of the Maharishi University of Management campus, from restored prairies to geothermal installations to the compost system that recycles all dining hall food waste. Then they will prepare to attend the national conference of the American Association for Sustainability in Higher Education (AASHE). They will learn how to gain maximum benefit from the conference, agree on a full slate of talks they wish to attend, and listen to and critique talks by Maharishi University of Management faculty and staff who will be giving those talks at the conference. Then the class will attend the conference, listen to talks, and interview and network with campus sustainability experts and students from around the country. Upon returning to Maharishi University of Management, students will present their experiences and findings in oral presentations to the rest of the class, followed by discussions about what was learned. Students with an exceptionally well-prepared talk, created well in advance of the course and approved by the faculty, may also give presentations at the conference. Lab fee: changes yearly. (4 credits)

Prerequisite: SL—G101

SL—G340 Economics of Sustainability

Gain a conceptual understanding of economic sustainability and acquire specific knowledge and information needed to apply these concepts in your professional and personal life. A sustainable economy must be capable of meeting the needs of the present without diminishing opportunities for the future. Since all economic value is derived from either nature or society, a sustainable economy must continually renew and regenerate the “natural and human capital” from which it derived its “economic capital.” Sustainable capitalism may seem an oxymoron because today’s neoclassical capitalist economy clearly is not sustainable. However, market economies provide the most efficient means of meeting our individual needs if nature and society are protected from economic exploitation. We have the collective ability and means to work together to provide the social and political restraints and incentives needed to ensure long run ecological and social integrity. Through hands-on experiences both on campus and in the community, students in this course will gain an understanding of how sustainable living

creates the ethical and intellectual foundation for sustainable businesses, communities, economies, and societies. (4 credits)

SL—G350 Plant Biology: The Unity and Diversity of Plant Life — How Organisms from Bacteria to Fungi to Giant Redwoods Nourish, Enrich, and Integrate the Biosphere

How Organisms from Bacteria to Fungi to Giant Redwoods Nourish, Enrich, and Integrate the Biosphere Plants, the source of fixed energy for virtually all life forms, are the principal topic of this introductory course. The photosynthetic groups covered range from cyanobacteria through phytoplankton and seaweeds, to bryophytes, lower vascular plants, gymnosperms, and the flowering plants. Non-photosynthetic bacteria, fungi and fungal-like protists are presented as the great integrators and recyclers of nutrients in the global biosphere. Some basic concepts in biochemistry, cell biology, membrane transport, anatomy, and plant ecology, are also included. The course provides a good foundation not only for more advanced topics in biology but also for agriculture. Lab fee: \$120. (4 credits)

SL—G355 Earth Materials: From the Ground to Sustainable Living

We extract resources from the Earth to grow food, make stuff, move things around, build cities, and harness the energy to do it all. Expanding exponentially, the human enterprise is not sustainable, unless it undergoes a new industrial revolution guided by how Earth systems work, by cradle-to-cradle principles, and by other expressions of natural law stimulated by rising collective consciousness. In lectures, labs, group projects, field trips, and individual presentations, we explore a variety of materials (crystals & rocks, glass & ceramics, metals & alloys, concrete & composites, etc.), how and where raw materials are concentrated by Earth systems, the history of their use by humans, global systems of extraction, processing, trade, and recycling, and especially the creative forefront of reinventing — the emergence of sustainable solutions driving the green revolution. Lab fee: \$40. (4 credits)

SL—G370 Environmental Law: Connecting National Law with Natural Law to Protect the Environment from Global Warming, Pollution, and Resource Depletion while Creating Abundance for All Nations

From local regulations about water quality to global initiatives like the Kyoto Accord, the law is an important tool for regulating our use of the environment. During this course, students will become familiar with international treaties and protocols on global warming, pollution, and endangered species. The class will also study the key features of American environmental law including the Clean Air and Water Act, the Environmental Protection Act, and other current policies and regulations. Perhaps most importantly,

students will understand the lawmaking process as a way to use the legal system to bring about positive change and build sustainable communities. (4 credits)

SL—G380 Biology Research: Self-Discovery through Research in the Life Sciences — How to Solve a Biologically Based Challenge in a Sustainable System through an Individual Research Project

Students enrich their knowledge with practical experience in the techniques of modern laboratory research. (4 credits) *Prerequisite:* consent of instructor

SL—G399 Directed Study

Prerequisite: consent of the Department faculty
(variable credits)

SL—G400 Sustainable Living Project Prep: Planning Your Personal Contribution to Life in Accord with Natural Law

This course is devoted to preparing students for the Senior Sustainable Living Project (SL—G401). Students will meet with faculty to research, discuss, and plan the project to ensure that it will unfold as smoothly as possible. (4 credits) *Prerequisites:* good academic standing and consent of instructor

SL—A401 Planning a Sustainable Family Farm: Natural Law as the Basis of Intelligent Planning

Although farming, like any business, has to manage the uncertainties of the market, it also has to deal with unpredictable weather and biological factors such as pests. That's why intelligent planning is essential for success with a family farm, especially when it aims to minimize damage to the natural environment. Students will learn the basics of economic investments, farm assessment and inventory, and principles of planning, as well as what and how much to produce and how to produce it. In addition, they will be exposed to best management practices, investment evaluation, and the relationship between margin, earnings, and costs. This foundational knowledge will enable them to plan a family farm with an elevated level of confidence. Course fee: \$60 (4 credits)
Prerequisite: one of the following: SL—A101, SL—A201, SL—A301, or permission of the instructor

SL—F401 Philosophies of Sustainability: Locating the Deepest Levels of Natural Law in the Foundations of Sustainable Thinking

This course will break down the meta-concept of sustainability into its constituent parts: its social, environmental, and economic aspects, as well as how the concepts of democracy, technology, and spirituality relate to sustainability. This course will start out with an overview of the sustainability movement as presented in the Sustainability

Revolution by Andres Edwards. Supplemental readings will address aspects of the philosophies of sustainability left out by Edwards' summary, including anthropocentrism, capitalism, and others. Through films, reading assignments, lectures, and discussions, students will formulate their own definition of sustainability to make the abstract concept of sustainability practical to their everyday lives. (4 credits) *Prerequisite:* SL—G202

SL—G401 Senior Sustainable Living Project: Applying Natural Law-Based Knowledge to Real-World Enterprises to Test Principles of Sustainable Technologies

In this final course, students apply what they have learned to a special senior capstone project. Under the guidance of faculty, students will design and implement some aspect of a sustainable community, using opportunities in the city of Fairfield, Maharishi Vedic City, Abundance Ecovillage (just north of Fairfield), or the Maharishi University of Management campus itself. The project may be an individual effort, or students may work together in small teams to produce a fitting tribute to the concept of Sustainable Living, one that will prepare them to take on real projects wherever they may choose to work.

(4 credits — may be repeated for credit) *Prerequisite:* SL—G101

SL—G402 Green Leadership Adventure

This action-packed course will explore group dynamics and leadership in the context of adventure sports while providing visits to world-famous projects and institutions known for sustainable design. (6 credits)

SL—G403 Apprenticeship in Teaching Sustainability: How to Apply Natural Law to Teaching by Assisting with the Instruction of Selected Courses in the Sustainable Living Program

This course is designed to allow advanced undergraduate students of good academic standing the opportunity to assist an instructor in teaching a course in sustainability. It is especially recommended for those students who plan to go into a teaching career or who expect to help finance graduate work through teaching assistantships. In most cases it will involve helping the instructor with course planning and preparation, small discussion groups, homework and quiz grading. Some lecture and lab preparation and presentation may also be included as a teaching experience. (4 credits)

SL—P404 How to Create Social Change

We have the solutions to create a sustainable future, but it isn't happening nearly fast enough. This course studies what works to achieve big social change to make a sustainable future happen. This is a 'brains-on,' practical course. The class will meet with and interview an exciting range of highly successful change-makers in industry,

campaign groups, and government. Some theory of social change will also be reviewed. Working as a team, students will develop their own understanding of social change and create a definitive report on the topic. We will also look at the many opportunities for graduates to build meaningful careers in this field. Lab fee: \$25. (4 credits)

SL—G410 Sustainable Living Certification: Acquiring Training for Environmental Consulting and Certification of Natural Law-Based Operations and Buildings

As the demand increases for Natural Law-based technologies in the production of food, buildings, and other consumer goods, so does the demand for verification that acceptable environmental and health standards have been met during their production. That demand, in turn, calls for inspectors and consultants trained to critically examine these goods and services. This course offers the opportunity to acquire certification training in areas such organic inspection, and Building (Bau) Biology. It can also include training in software competency such as Chief Architect. All of these certifications and competencies significantly enhance the student's credentials and employability in the field of sustainability. *Prerequisite:* consent of the instructor (4 credits)

SL-G411 High Performance Team Building: Finding Value and Delivering It — The Key to Any Sustainable Venture

This hands-on course is being offered in response to student desires for more non-traditional, project-based classes. The goal is to create a high performance team in the context of creating a multidisciplinary public relations and/or marketing firm. Opportunities might include, adding to the marketing mix of the Sustainable Living Department through website, videos, copy, and design print, or getting published in a magazine or newspaper, or broadcasted on TV or radio. This class will enable students to use skill sets they've developed in previous classes—whether it's film, graphic design, business, or sustainability—in a collaborative project that has real world impact. Topics include: theories in social change, memetics, principles of design, the psychology of sustainable behavior, creating stakeholder buy-in, and video and web marketing. Lab fee: For students that need to learn a software program: a one month Lynda.com subscription (\$25.) (4 credits) *Prerequisite:* interview with the instructor

INTERDISCIPLINARY STUDIES OPTION: THE INDIVIDUALIZED MAJOR

In the event that no single major alone satisfies a student's career goals, he or she may, with the advice of two faculty, propose an individualized major that meets all of the standards of a college major but is composed of courses from two or more majors. These standards are given below.

INDIVIDUALIZED MAJOR STANDARDS

The plan must be approved by the University's Curriculum Committee, according to the following standards. Students will complete an application showing how they meet these standards. Application materials may be found online or at the Enrollment Center.

Length

Students will be asked to consult with two faculty and together design a major of at least 48 credits, with one concentration of at least 16 credits taken from one major. At least half of the courses should be at the 300 level or above. Only two directed studies will be permitted over and above the capstone project described below.

Faculty Supervision

Students may propose an individual major on any subject matter that permits coherent, in-depth study using resources available through the University, and that does not duplicate an existing program. Two faculty from different departments must read and approve the proposal and agree to advise the student throughout the plan. One of the faculty should be from the concentration, and both should agree to read and evaluate the final project. If there is no one on University faculty with sufficient expertise in the proposed major, students will need to find someone with recognized expertise in this field to be a third reader of the final project.

Foresight

Students' proposals must be approved by the Curriculum Committee after at least 20 hours of the general education requirements have been met and before half of the proposed major courses have been taken. Applicants should have a "B" average in their general education requirements.

Coherence

The plan must be organized around a central theme and substantial enough in content to meet the aims of college study. It should also have a theme from Maharishi Science of Creative Intelligence or Maharishi Vedic Science, connecting the interdisciplinary theme to life as a whole.

Range of Knowledge

The plan should provide for a) a foundation of skills, concepts, and methods appropriate to the proposed area of study, b) study of leading thinkers in the field, c) a planned opportunity to apply one's knowledge and skills to real world problems and issues or to complete a substantial research project, and d) knowledge of SCI or Vedic Science relevant to the theme.

Capstone Project

The major will include an integrative project to be completed in a two-block capstone course pursued at the end of the plan. The project is a sustained, focused exploration of a selected topic supported by the plan, using methods appropriate to the subject, and permitting reflection on and creative use of material encountered earlier in students' studies. The project may take any form, including, for example, laboratory, field, or other empirical research; a substantial essay or research paper; a performance, panel, or public presentation; a community program; a web site, or some other form that you choose. Projects in all formats must be supported by appropriate independent research and a bibliography of works cited. They must include a section relating the project to the Science of Creative Intelligence or Vedic Science. All performance and media projects must include a written rationale, criteria for evaluation, and a self-evaluation at the end according to the criteria.

Digital Portfolio

When students' majors are approved, they will create and maintain a web portfolio through Taskstream (currently \$69 for two years) or similar web portfolio manager that allows them to share their work with their professors and to reflect on their progress. The portfolio should include a major project, paper, or exam from each of their courses, together with each professor's evaluation of the work, so that later professors can see previous work and evaluations. Every semester, students must submit to their portfolio a reflection on their progress toward their program goals, at the same time they create objectives for the next semester.

ROTATING UNIVERSITY

SPECIAL FEATURES

The Rotating University program offers courses of study abroad, usually of four to six weeks' duration. The purpose of these courses is to develop "international citizens," individuals capable of acting spontaneously in accord with the Laws of Nature in any culture. Most courses focus on academic topics relevant to the culture. Some include the study of local language and geography. In every course, students learn to manage their daily study and travel within the laws and customs of a foreign country and culture.

Past courses have ranged from biking and hiking through New Zealand and Australia, adventure sport in southeast Asia, visiting famous art museums and historic places of Italy, cruising the Greek islands, to exploring the rich cultural and spiritual traditions of India, the Land of the Veda.

See the following course descriptions in their respective sections of the catalog: HUM 232, FA 229, ESS 325, WTG 410, MC 336, MGT 485, and MVS 485.

CONTINUING EDUCATION COURSES

On-Campus Credit Courses

Non-degree-seeking students who wish to take courses for academic credit may do so by applying to and registering through the Enrollment Center using the Continuing Education Application and the Continuing Education Application Supplement available at www.mum.edu/enrollmentforms.html. In this way, one may take a regular undergraduate or graduate course without enrolling for an entire semester.

Two policies guide credit courses taken through the Continuing Education:

- 1) The first course our degree-seeking students take when they enter the University is the Science and Technology of Consciousness course (STC 108) for undergraduates or the Science of Creative Intelligence course (FOR 500) for graduate students. When taking credit-bearing courses through Continuing Education, it is recommended that students take STC 108 or FOR 500 first. However, students may take up to eight credits of other course work before they must take one of these courses.
- 2) A maximum of eight credits taken through Continuing Education may later be applied to a degree program.

Students are automatically enrolled for each academic block they are enrolled in class. For details of these courses, please refer to the Department of Maharishi Vedic Science section of this Catalog.

Tuition, Withdrawals, and Refunds for Credit Courses

The tuition for both undergraduate and graduate courses is \$350 per credit. Housing and meals are \$200 per week or \$750 per month. MVS 100: *Transcendental Meditation* Technique has an additional tuition. Please contact the Enrollment Center for details.

Withdrawal Policy for On-Campus Credit-Bearing Courses

- 1) To withdraw from the course before it has started, notify the Enrollment Center.
- 2) To withdraw after a course has started, fill out a Course Withdrawal form together with the course instructor within three days of the last day of class attended. Please give complete information including the reason for withdrawal and the last date of class attendance.
- 3) It is your responsibility to inform your instructor of your intention to withdraw within three days of your last day of class attendance. If you are absent longer than three days, the instructor may assign a grade of NC.

Refund Policy for On-Campus Credit-Bearing Courses

If it becomes necessary to withdraw from a course, follow these procedures to apply for a refund:

- 1) Be sure to complete a Course Withdrawal form with your instructor within three days of your last day of attendance. Refunds are based on the last date of class attendance.
- 2) File a request for refund at the time of withdrawal from the course at the Enrollment Center. Refunds are given only to those who officially withdraw from a course within three days of the last date of class attendance.
- 3) A student who withdraws after the first day of the course will be charged a minimum of 50% of the course fee. After 25% of the course has been taken, there is no refund.

On-Campus Noncredit Courses

Maharishi University of Management also offers a wide variety of educational programs that do not carry academic credit although in some cases these courses can be used to fulfill the requirements for in-service and professional credit. These programs are designed to meet educational demands as they arise.

Examples of courses that may be offered from time to time include:

- Maharishi Vedic Science and Technology — Consciousness-Based education program, Sanskrit, and Vedic Management
- *Maharishi Gandharva Veda* Music
- Exercise and sports
- Art — watercolor, sculpture, and ceramics
- Desktop publishing and computer use
- Digital Media

Distance Education Courses

Our distance education program uses physical sites in selected locations, but also takes full advantage of online courses to cater to the needs of busy learners who might have responsibilities that do not permit traditional campus attendance. Maharishi University of Management's distance education program offers a variety of courses for both credit and noncredit, with a portfolio that continues to expand. See www.mum.edu/de

Courses being offered include Advanced Training in Maharishi Ayurveda for Health Professionals, Maharishi Yoga Asanas, Essence of Buddhism in Light of Maharishi Vedic Science, Songwriting, Ayurvedic Cooking for Anti-Aging and General Health, Beginning Sanskrit with examples and exercises from Vedic literature, Veda and Physiology, and Foundations of Physics and Consciousness.

OTHER PROGRAMS

Researcher-in-Residence

Students who are working on an MFA portfolio, or are in the research or writing stage of a doctoral dissertation at another university and wish to do research under the guidance of a member of the faculty, may apply to the Researcher-in-Residence program. Applicants should submit an application along with a written research proposal and a letter from a faculty member who has agreed to supervise the research. The research proposal should provide the details of the proposed activity for the full period of enrollment. Final acceptance to this program is based upon approval of the application by the Dean of Faculty. Students may participate in this program for up to one year.

Graduate Fellowship Program

The graduate fellowship program is a non-degree program available to individuals who already hold a master's degree and who wish to pursue full-time study for a period of at least six months in a field for which they are qualified and have shown a strong interest. The applicant must be approved by a sponsoring academic department and by the graduate school prior to acceptance. The program of study must have clearly delineated objectives, and the methods for accomplishing the objectives and for evaluating the performance of the student must be well defined. The study may take place either on or off the campus, but should encompass at least 35 hours of study per week. The graduate fellowship program is generally offered in conjunction with an institution or agency sponsoring the study. A student may participate in this program for a maximum of seven years.

First Year Only Program

Anyone who wants to take advantage of the University's unique approach to interdisciplinary study can do so through the "First Year Only Program." This individualized program offers the advantages of a Maharishi University of Management education to all those who do not wish to enroll as degree-seeking students. Credit is generally transferable to other universities.

Students in this special program generally begin their studies with Science and Technology of Consciousness (STC 108), which introduces the true interdisciplinary basis for studying all the fields of knowledge — located in the inner intelligence of the knower. Then, in subsequent courses, as they study a wide range of fields — from business to art to computer science — students feel at home with every subject as an expression of their own intelligence.

Junior Year Program

Students enrolled in degree programs at other universities are invited to attend Maharishi University of Management for their junior year and add the holistic benefits of the University's program to their educational experience. Individually tailored, the Junior Year program generally includes some first-year courses, course work in any of the upper-division major programs, Science and Technology of Consciousness (STC 108), and one Forest Academy. A half-year program is available for those who cannot stay for a full academic year.

ACADEMIC POLICIES

GRADUATION POLICIES

The University faculty determine whether students are qualified to graduate. Qualifications are based on 1) satisfactory completion of all academic requirements as described in the certificate or degree requirements listed below, 2) the specific requirements for the student's major or program (listed under "Academic Programs"), and 3) success in meeting the University's standards of holistic student development.

At least three days before graduation, students' records must be complete with the Registrar and indicate the following: all academic requirements for their degree program have been satisfied, final grades are on file, all fees and charges incurred have been paid, and an "Application for Graduation" was submitted at least 90 days prior to graduation. Among requirements that must be completed before graduation is the undergraduate assessment program administered by the Office of Evaluation.

Students whose academic records are not complete by three days before the graduation ceremony are ineligible to receive their degrees. They must reapply for the next graduation. Degrees are awarded twice a year, at the end of each semester. One graduation ceremony is held each year, at the end of the spring semester.

Graduation requirements, including major and minor requirements, are determined by the requirements stated in the Catalog of the year the student begins studying at the University. Please see the Graduation Director in the Enrollment Center if you have any questions about graduation requirements.

BACHELOR'S DEGREE REQUIREMENTS

A minimum of 128 credits, including up to a maximum of 16 Development of Consciousness credits and up to a maximum of 70 transfer credits, is required for students to graduate with a bachelor's degree. One credit, or unit, is equal to one standard semester hour. Within these credits students must fulfill the following requirements:

General education requirements

Required courses:

MVS 100 or ED 101 *The Transcendental Meditation Program*
STC 108 or 109 *Science and Technology of Consciousness (This is the first course taken at the University and is the prerequisite for all other courses.)*
CCTS Course *(This is a critical and creative thinking seminar that immediately follows the first course. Most undergraduate majors offer one of these courses, which may vary from year to year.)*
PHYS 110 *Foundations of Physics and Cosmology*
PH 101 *Physiology Is Consciousness*
WTG 191 *College Composition 1 (may be waived based on the results of a diagnostic assessment or transfer credit)*
WTG 192 *College Composition 2 (Students may petition to waive based on transfer credits.)*
FOR 103 *Health-Related Fitness (2 credits) (not repeatable)*
MVS 202 *Higher States of Consciousness (4 credits)*
MGT 346 *Career Strategies (2 credits) (taken in the last year)*
MVS 475 *Senior Capstone (2 credits) (taken in the last semester)*

Distribution courses:

4 credits from Fine Arts
4 credits from Humanities
4 credits from Applied Social Sciences
4 credits from Mathematics

Specific courses that may be used to satisfy distribution requirements

Fine Arts (4 credits)

FA 201 *Art in Nature*
FA 301 *Drawing 1*
FA 311 *Painting 1*
FA 341 *Ceramics 1*
FA 351 *Sculpture 1*
ESS 332 and 333 *Movement and Improvisation I and II*
ESS 337 *Introduction to Physical Theater*
LIT 114 *Literature as Self-Discovery*
Any music course numbered higher than 199
SL—G110 *Woodworking for Sustainability*
Any writing course numbered higher than 192

Humanities (4 credits)

FA 203 Understanding Art and Media

FA 204 CCTS: Spiritual Quest in Media & Myth

FA 229 Art and Culture (Rotating University)

FA 381, 382, 383, 384 Art History I, II, III, IV

Any humanities course

Any literature course

MC 300 Narrative 1

MVS 225 MVS and Judaism, Christianity, and Islam

MVS 226 MVS and Buddhism, Taoism, and Confucianism

MVS 235 Music Appreciation

Applied Social Sciences (4 credits)

Any education, business, or government course

Any ESS Leadership course

MVS 308 Research Design

MVS 309 Peace Studies

MVS 555 Ideal Administration

Many sustainable living courses including:

SL—G150 Ideal Human Relationships

SL—G240 Leadership, Team-Building, and Creativity

SL—P302 Energy Policy for Sustainability

SL—G370 Environmental Law

SL—G220 Environmental Planning and Landscaping

Mathematics (4 credits)

Any mathematics course numbered 153 or higher

MGT 314 if a student has been placed by the Department of Mathematics higher than MATH 153.

Forest Academies

Completion of the following:

STC 108 Science and Technology of Consciousness (6 credits)

(This is the first course taken at the University and is a prerequisite for all other courses.)

plus an additional Forest Academy for each semester in which the student is enrolled for at least 3 blocks.

- Students in 1-year programs are required to take 2 Forest Academy courses.

- Students in 1 1/2 -year or longer programs are allowed to miss one Forest Academy during their bachelor's degree program. If more than 1 is missed, a make-up is required.

CCTS (Critical and Creativity Thinking Seminar)

Completion of one of the following is required:

CS 105 CCTS: Problem Solving with Computational Thinking

ED 110 CCTS: Learning Strategies / Globalizing World

FA 204 CCTS: Spiritual Quest in Media & Myth

LIT 220 CCTS: Literature and Enlightenment

MATH 200 CCTS: Mathematics and Infinity

MC 210 CCTS: Speech, Persuasion & New Media

MGT 220 CCTS: Current Topics in Sustainable Economics

MUS 217 CCTS: The Power of Sound: Ultimate Quest of Both Artist and Scientist

MUS 223 CCTS: American Roots Music

MVS 150 CCTS: Science and subjectivity

SL-G100 CCTS: Understanding and Advocating Sustainable Living

(This is the second course taken at the University. A few of the above courses are required for specific majors.)

Development of Consciousness (DC) Courses

All students are required to practice the Transcendental Meditation technique. Students who have not learned the Transcendental Meditation technique before coming to the University are required to take MVS 100 Instruction in the *Transcendental Meditation* technique (taken along with STC 108).

Each semester, students who have learned the Transcendental Meditation technique need to fulfill requirements for 1 credit in Development of Consciousness. Students who have learned the Transcendental Meditation and TM-Sidhi programs need to fulfill requirements for 2 credits in Development of Consciousness. Students may apply up to 16 credits in Development of Consciousness toward required graduation credits.

Required course each semester:

DC 320 Development of Consciousness: TM technique (1 credit each semester) *or*

DC 332 Development of Consciousness: TM and TM-Sidhi program (2 credits each semester)

Major

Completion of requirements for a major field of study, listed under "Academic Programs." (A maximum of 50% of the credits in a major may be transferred.)

Declaration of Major

Undergraduate students must declare a major after taking 54 credits or by the end of their first semester at Maharishi University of Management, whichever comes later. Students who do not comply may not be allowed to register for further course work.

Grade Point Average (GPA)

Cumulative GPA of 2.0 or higher

Recreation

Completion of Forest Academy course entitled “Health Related Fitness”.

Undergraduate students are strongly recommended to participate in four hours of dynamic physical activity each week and to request a fitness assessment each semester. (Students 35 years of age or older on entry to the University are exempt from the weekly activity and the fitness assessment.)

Assessment Tests

Assessment tests are required both upon entry to the University and during the student’s Senior Capstone course.

Mathematics Placement Policies

There are two types of undergraduate mathematics requirements at Maharishi University of Management

- **The distribution requirement in mathematics:** Undergraduate students need to take and pass at least one course (4 credits) in mathematics at the level of Math 153 or above.
- **Major and prerequisite requirements:** A student’s major may require more mathematics and some courses have mathematics prerequisites.

On entry into Maharishi University of Management, every entering and readmit student is required to be placed in mathematics according to the following rules:

1. If a student’s transcript at the time of entry to MUM shows a mathematics course at the 100 level or above with grade C or above, taught by the Mathematics Department at another accredited university or college, then that student is deemed to have satisfied the distribution requirement in mathematics. (Such a course will have prefix MATH, MAT, MTH, etc., but not STA, STAT, BUS, MAN, BMAT, etc.) If such a student has declared a major at M.U.M. that does not require further mathematics, then a placement test is **not required** and the student does not need to take any mathematics

courses while at M.U.M. (Such a student may choose whether to be placed in mathematics at this time or not. If he or she chooses not to be placed at this time, and then later switches to or adds a major that requires mathematics, he or she must be placed in mathematics before being allowed to enroll for any course with a mathematics prerequisite.)

2. A student who signs a waiver agreeing to be placed into the lowest level Math 051 Basic Mathematics is **not required** to take the math placement test.
3. A student who is being readmitted to M.U.M. after an absence of one year or less, and who was previously placed, is **not required** to take a math placement test, unless he or she wishes to. The previous placement is still valid. Students readmitted after an absence of more than one year need to be placed again.
4. A student who, within the past two years, achieved a score of
 - 4 or above on the College Board Advanced Placement Test in Calculus AB or BC, or
 - 60% or above in the CLEP Calculus Test, or
 - 5 or above on the IB HL Mathematics Examis **not required** to take a mathematics placement test. Placement will depend on the topics tested.
5. A student who, within the past two years, achieved a score of
 - 44 – 100 on the COMPASS PreAlgebra Mathematics Test may waive Math 051 Basic Mathematics,
 - 46 – 65 on the COMPASS Algebra Mathematics Test may waive Math 152 Elementary Algebra,
 - 66 – 100 on the COMPASS Algebra Mathematics Test may waive Math 153 Intermediate Algebra.

Such students are **not required** to take a mathematics placement test, unless they wish to.

6. If a student has not yet declared a major, or will be taking any mathematics course numbered 282 or less, or any course requiring a mathematics prerequisite numbered 282 or less, that student **is required** to take a math placement test on entry to M.U.M. The results of the placement test (not transfer credit) will determine that student's math placement.
7. If a student has completed the equivalent of Math 267 Geometry, Math 272 Discrete Mathematics, or any mathematics course numbered Math 283 or above with a grade of C or above, at another accredited university or college, then transfer credit will be given on a case-by-case basis, depending in part on the grade obtained and how long

ago the course was completed. Such a student **may or may not be required** to take a placement test.

8. **Further placement testing.** Any student, who is not satisfied with his or her math placement, has the option to study on his or her own and take further placement tests in the specific courses Math 051, Math 152, Math 153, Math 161, Math 162. The student may take a maximum of one additional test at each of these levels. There are no additional tests for calculus.
9. **Mathematics Placement Meeting.** Every new and readmit student is required to come to the Mathematics Placement Meeting that usually takes place in the first week after the student arrives on campus. At this meeting, students either take a placement test or establish that they don't need to. A make-up meeting is held about a week later for late arrivals.
10. **How to satisfy the distribution requirement in mathematics.** The distribution requirement in mathematics is *not* satisfied by passing a placement test at M.U.M., *nor* by passing a course in high school, *nor* by the COMPASS Test. It *is* satisfied by advanced placement or if a student's transcript shows a mathematics course at the 100 level or above with grade C or above, taught by the Mathematics Department at another accredited university or college credit at the required level, no matter how long ago the course or test was completed, and no matter what standing was achieved on any mathematics placement test taken at M.U.M. It is also satisfied by enrolling for and passing a mathematics course at the level of Math 153 or above at M.U.M. or by passing MGT 314 if a student has been placed by the Department of Mathematics higher than MATH 153.
11. **How to satisfy the major and prerequisite mathematics requirements.** The major and prerequisite mathematics requirements, on the other hand, need to be current. The standing achieved on any mathematics placement test takes precedence for this purpose over courses taken at other universities and colleges. Passing a placement test *does* satisfy this requirement. (If a student places out of a course that is required for the major then the units for that course count towards the total units required for that major, although the units will not count towards the overall total units required for graduation.) Advanced placement (see item 4 above) or COMPASS tests (see 5 above) at the required level obtained at most two years prior to entry to M.U.M. also satisfies this requirement, as does enrolling for and passing a course at M.U.M.

REQUIREMENTS FOR A CERTIFICATE

Forest Academies

Completion of the following:

STC 108 Science and Technology of Consciousness

(This is the first course taken at the University and is a prerequisite for all other courses.)

plus an additional Forest Academy for each semester in which the student is enrolled for at least 3 blocks

- Students in one-year programs must take 2 Forest Academy courses.
- Students in 1 1/2 -year or longer programs are allowed to miss one Forest Academy during their certificate program.

Development of Consciousness (DC) Courses

All students are required to practice the Transcendental Meditation technique. Students who have not learned the Transcendental Meditation technique before coming to the University are required to take MVS 100 Instruction in the *Transcendental Meditation* technique (taken along with STC 108).

Each semester, students who have learned the Transcendental Meditation technique need to fulfill requirements for 1 credit in Development of Consciousness. Students who have learned the Transcendental Meditation and TM-Sidhi programs need to fulfill requirements for 2 credits in Development of Consciousness. Students may apply up to 16 credits in Development of Consciousness toward required graduation credits.

Required course each semester:

DC 320 Development of Consciousness: TM technique (1 credit each semester) *or*

DC 332 Development of Consciousness: TM and TM-Sidhi program (2 credits each semester)

Grade Point Average (GPA)

Cumulative GPA of 2.0 or higher

Program Requirements

Completion of requirements for a specific certificate, listed in “Academic Programs”

REQUIREMENTS FOR A MASTER’S DEGREE

Forest Academies

Completion of one of the following courses:

FOR 500 Science of Creative Intelligence: 33-Lesson *or*

STC 508 Science and Technology of Consciousness

(One of these courses is the first course taken at the University and is a prerequisite for all other courses.)

plus an additional Forest Academy for each semester in which the student is enrolled for at least 3 blocks

- Students in one-year programs may not miss any Forest Academies.
- Students in 1 1/2 -year or longer programs are allowed to miss one Forest Academy during their master's degree program. If more than 1 is missed, a make-up is required.
- Students in nonstandard programs may have different Forest Academy requirements.

Development of Consciousness (DC) Courses

All students are required to practice the Transcendental Meditation technique. Students who have not learned the Transcendental Meditation technique before coming to the University are required to take MVS 100 Instruction in the *Transcendental Meditation* technique (*taken along with MVS 500 or STC 508*).

Each semester, students who have learned the Transcendental Meditation technique need to fulfill requirements for 1 credit in Development of Consciousness. Students who have learned the Transcendental Meditation and TM-Sidhi programs need to fulfill requirements for 2 credits in Development of Consciousness.

Required course each semester:

DC 520 Development of Consciousness: TM technique (1 credit each semester) *or*

DC 535 Development of Consciousness: TM and TM-Sidhi program (2 credits each semester)

Grade Point Average (GPA)

Cumulative GPA of 3.0 or higher

Program Requirements

Requirements for a program of study, listed in "Academic Programs," which may include completion of one of the following:

1) Thesis with an oral examination

When a thesis is part of the planned program, students consult with their department to select a faculty member who is willing and able to direct the research and the writing of the thesis. The director may or may not be the original departmental academic advisor. A minimum of eight credits in master's thesis research is required; these credits count toward the minimum number of credits for the degree. Some departments may require more than eight credits of master's thesis research. The maximum number of credits that may be earned in master's thesis research is determined by each department. The thesis must be acceptable to the student's thesis director. The thesis must be organized, typed, duplicated, and bound according to regulations prescribed by the Graduate School. An

abstract of the thesis not exceeding 150 words must also be prepared. Students in a thesis program are required to pass an oral examination on the thesis.

2) Comprehensive examination

The comprehensive examination for the master's degree may be in the form of a written or oral examination. The date for the examination is scheduled by the department. The student must be registered during the block in which the examination is taken.

3) Integrative final project with an oral presentation

REQUIREMENTS FOR A DOCTORAL DEGREE

Forest Academies

Completion of one of the following courses:

FOR 500 Science of Creative Intelligence *or*

STC 508 Science and Technology of Consciousness

(One of these courses is the first course taken at the University and is a prerequisite for all other courses.)

plus an additional Forest Academy for each semester in which the student is enrolled for at least 3 blocks. Students in 1 1/2 -year or longer programs are allowed to miss one Forest Academy during their Ph.D. or doctorate degree program.

Development of Consciousness (DC) Courses

All students are required to practice the Transcendental Meditation technique. Students who have not learned the Transcendental Meditation technique before coming to the University are required to take MVS 100 Instruction in the *Transcendental Meditation* technique (*taken along with MVS 500 or STC 108*).

Each semester, students who have learned the Transcendental Meditation technique need to fulfill requirements for 1 credit in Development of Consciousness. Students who have learned the Transcendental Meditation and TM-Sidhi programs need to fulfill requirements for 2 credits in Development of Consciousness.

Required course each semester:

DC 520 Development of Consciousness: TM technique (1 credit each semester) or

DC 535 Development of Consciousness: TM and TM-Sidhi program (2 credits each semester)

A grade of "B" or higher in all courses

Core Curriculum

Completion of core curriculum for a specific program of study, listed in “Academic Programs”

Comprehensive Exam (if applicable to the program)

This examination is taken after completion of the core curriculum in each program. Based on the results of this exam, the student may be awarded a master’s degree. The student must be registered during the block in which this examination is taken.

Qualifying Exam

This examination assesses the ability of the student to pursue doctoral research. (This examination should also cover any core curriculum beyond the master’s level for doctoral programs requiring a master’s degree for admission.) On the basis of successful completion of this examination, the student is advanced to candidacy for the doctoral degree.

Advisory Committee

This committee, formed by each doctoral student, should have at least four members including: the thesis advisor, a faculty member from the student’s department, a faculty member from Maharishi University of Management but another department, and one faculty member from another university or research institution. The membership of the advisory committee must be approved by the director of the doctoral program and the Dean of the Graduate School.

Dissertation Proposal

The dissertation proposal is approved by the student’s advisory committee and the Dean of the Graduate School.

Teaching and Research Experience

All doctoral students who have passed their oral qualifying exams are asked to help teach courses and/or help as research assistants. These activities give the student necessary experience in teaching academic courses and in conducting research — two necessary skills in the career path of Ph.D. graduates. Students who have reached the candidate stage are awarded Ph.D. assistantships, which entail this teaching or research.

Advanced Course Work

Advanced courses will be prescribed by the thesis advisor and advisory committee to ensure that the student will have comprehensive knowledge of a major field and related subjects. The courses the student is required to take will depend upon prior academic background in relation to the selected graduate program and area of research interest.

Original Research for a Dissertation

Each student working toward a doctor of philosophy degree must conduct original research as the basis for a dissertation that makes a significant contribution to knowledge. The research is to be under the guidance of the thesis advisor and the advisory committee, and requires their approval. All doctoral students must be registered during each block in which they are working on their doctoral dissertation, whether or not they are in residence on campus. It is the policy of the University to permit and facilitate dissertation research by international students in their home countries, whenever feasible.

Written Dissertation and Abstract

The dissertation guidelines are available on line at www.mum.edu/dissertation Students should read these guidelines before beginning their dissertation.

When writing a dissertation, the student works closely with his or her major professor. Once the major professor has approved the dissertation, the student can submit the document to other committee members. The committee members will review the document and give their comments in a timely fashion—within two weeks. After incorporating all comments, the student will send updated copies of the manuscript to all committee members two weeks before the dissertation defense is scheduled.

When the dissertation committee has reviewed and approved the dissertation and the student has passed the dissertation defense, the student shall incorporate any further recommended changes and corrections before submitting it to the Library. To aid in completing the final dissertation, the student presents an electronic copy of his or her dissertation one month before graduation to the head librarian. Even if the dissertation is not complete, it should be presented to the librarian at this time. She will give the student feedback on formatting the dissertation. One week before graduation, the student must submit to the head librarian a final printed copy of the dissertation and abstract, an additional copy of the abstract, the microfilming and binding contract, the microfilming and binding payment receipt, and the required forms (see Microfilm and Publish section below). Everything needs to be complete at that time.

Oral Defense of the Dissertation

The oral examination in defense of the dissertation will be conducted and evaluated by the dissertation committee supplemented, at the discretion of the Dean of the Graduate School, by additional appointed faculty members. The examination will be scheduled for a date not earlier than two weeks after the dissertation and abstract have been submitted to the major professor and dissertation committee. The student must be registered during the block in which the final oral examination is taken.

Microfilm and Publish the Dissertation

All doctoral dissertations submitted to the Graduate School must be microfilmed. The University subscribes to the service offered by University Microfilms International.

- Two copies of the dissertation will be put in the Maharishi University of Management Library and will be available for interlibrary loan. The abstract will be published in Dissertation Abstracts, which will announce the availability of the dissertation in film form.
- The microfilming and binding fee required of all doctoral students submitting dissertations will cover the cost of the library microfilm copy, binding, and the publication and distribution of the abstract. The student may order additional bound copies through University Microfilms International.
- An extra fee is charged if the dissertation is to be copyrighted. Information about the amount of this fee and method of payment may be obtained from the Graduate School. The University considers microfilming a form of publication; this does not, however, preclude publication of the dissertation in a journal or monograph, either in whole or in part.

GENERAL POLICIES

Transfer Credit Policy

- **Transfer-out Credit** – Maharishi University of Management uses a standard semester system with academic credits, or units, equal to standard semester credits.
- **Transfer-in Credit** – Maharishi University of Management will accept as transfer credit toward its bachelor's degree programs credit earned at any institutions accredited by any of the U.S. "regional" accrediting associations (New England, Middle States, Southern, North Central, Western, or Northwest), at international universities of comparable accreditation, and at international universities that have been specifically approved by the Registrar. Transfer credit is always evaluated on a course-by-course basis. Credits applied toward undergraduate major requirements usually depend upon comparable courses being offered at Maharishi University of Management, though credits earned at acceptable universities will generally be transferable as elective credits toward Maharishi University of Management degrees.

Undergraduate degree students can apply transfer credits to cover the general education requirements, electives, and up to half the course work in the major for a maximum of 70 total credits. Transfer credits are accepted for courses completed with a grade of "C" or higher. Total transfer credits accepted from other institutions are posted on the student's Maharishi University of Management transcript. Grades earned at other institutions are not included in calculating a student's Maharishi University of

Management grade point average. Maharishi University of Management converts transfer credit from quarter-hour institutions using the formula 1 quarter hour equals $\frac{3}{4}$ of 1 semester hour.

Prospective students apply to their admissions counselor for evaluation of the total number of transfer credit.

All students can apply to their graduation advisor for evaluation of transfer credit towards general education requirements and the total number of transfer credits.

Continuing students apply to their departmental academic advisor for transfer credit towards major and minor requirements.

- **Credit by Examination**

Undergraduate students who earned credit by examination through the College-Level Examination Program (CLEP) or College Board Advanced Placement (AP) or International Baccalaureate and whose scores are 4 or higher for AP and 50 or higher for CLEP, or 5 or higher for IB Higher Level exams may receive four credits for each exam up to a maximum of 32 credits. This credit may be used to waive courses at Maharishi University of Management as appropriate. Graduates of Maharishi School of the Age of Enlightenment or the Ideal Girls School may receive 2 credits of Advanced Placement credit for each year of attendance at Maharishi School or the Ideal Girls School for 10th grade through 12th grade.

Second Bachelor's Degree

Students with a prior bachelor's degree may enroll for a second bachelor's degree. They may transfer up to one-half of the courses in the major on a course-by-course basis, to be determined by the academic department.

Students with a prior degree from Maharishi University of Management need only complete the major and any graduation requirements that have been added since they last attended the University.

Students whose prior degree is not from Maharishi University of Management must complete the following:

- a. The requirements of their new major (up to one-half of the credits may be transferred)
- b. A minimum of one-and-one-half years on campus
- c. MVS 100 or ED 101 Instruction in the *Transcendental Meditation* Program
- d. STC 108 or 109 The Science and Technology of Consciousness (*This is the first course taken at the University and is a prerequisite for all other courses.*)

- e. MVS 202 Higher States of Consciousness
 - f. One Forest Academy for each semester enrolled at least four blocks
 - g. Passing each semester's Development of Consciousness course
- Note: Senior assessment testing is not required

Second Master's Degree

Students with a prior Master's degree may enroll for a second if the degree is in a different field, or, with the approval of the academic department, if the degree is in the same field but with a different emphasis.

Second Ph.D. or Doctorate Degree

Students with a prior Ph.D. or professional degree who wish to pursue a Ph.D. program should follow these steps to determine their academic program:

- Admission is determined by the respective department.
- A major advisor and an advisory committee (three members) are selected following the same criteria that are applied for other Ph.D. committees, and the academic program is developed in consultation with the student.
- The academic program is submitted for review to the Graduate School following its development by an advisory committee from the department. A copy of the advisory committee report must be attached.
- This review includes the appropriateness of the advisory committee membership, the academic program, and the transfer of courses or degree credits from one program to another.

Time Limits on Degrees

Declaration of Major: Undergraduate students must declare a major after taking 54 credits or by the end of their first semester at Maharishi University of Management, whichever comes later. Students who do not comply may not be allowed to register for further course work

Bachelor's Degrees: Students may attempt a maximum of 150% of the number of credits normally required to complete their program. For a standard BA, undergraduates may attempt a maximum of 192 credits, including transfer credit, to complete their program. Students leaving the University for more than one year will be under the new graduation requirements listed in the current Catalog when they return to the University.

Master's degrees: All requirements must be completed within five years from the time of first enrollment in the program. Other restrictions apply for those receiving financial aid. Contact the Enrollment Center.

Doctoral degrees: Qualifying examinations are usually taken within 1 1/2 years of completion of the core curriculum. The maximum allowable time is 2 years. After the qualifying exam is completed, students may take up to seven years to write and defend the dissertation proposal, conduct research, write, and defend the final dissertation. If students pass the seven-year mark, they will need to petition their department to continue with their dissertation stating (1) reasons for the delay in their progress, and (2) a target date for finishing.

Residency Requirements

Undergraduate students must take at least 60 credits of course work (1 1/2 years) in residence for a bachelor's degree. Graduate residency requirements vary by program; please consult with academic departments. Exceptions to the undergraduate residency requirements may be made with the approval of the Academic Standards Committee.

Examinations

Students are not permitted to take examinations early. All students are required to complete each course fully, including taking the final examination on the date scheduled. Exceptions may be made for compelling reasons only. Students must have the prior approval of both the course instructor and the Academic Standards Committee before finalizing travel plans. Students should submit a "Petition to Academic Standards Committee" and include a note of approval from the course instructor before the final week of the course.

The same policy applies to taking examinations after the last class session — prior approval must be secured from the course instructor. The instructor will then give a student a grade of "I" (Incomplete) until the exam is completed." (see "Incomplete" in Grading Policies section below.)

Late Work

Students may not hand in work after the last class session of a course unless they have made prior arrangements for a grade of "Incomplete" (see "Incomplete" in Grading Policies section below) with the course instructor. Depending on the amount of work a student has yet to do, the faculty may elect to reduce the grade proportionally or give the student an "NC" instead of an "I."

Student Records

Students have the right to view their records at any time. They must contact the Enrollment Center to make an appointment. Any documents to which the student has waived the right of access will be removed from their file before viewing is permitted. Please see the University's website — www.mum.edu — for the University's FERPA policies.

Students may request copies of their records (other than transcripts) at 10¢ per page.

Academic Transcripts

An academic transcript is the complete record of a student's academic life while at the University. It reflects all course work, grades, major areas studied, degree(s) received, and academic progress. Academic transcript requests may be made in person at the Enrollment Center or submitted on line at www.mum.edu/transcripts. If not using the online form, your signature is required on your request before the Enrollment Center is able to release a transcript.

Current students may request a transcript for \$5. For former students, a \$10 processing fee for the first transcript and \$5 for each additional copy must accompany the request. If express shipping is requested, it must be paid for in advance. There is an additional charge for express shipping. Please contact the Transcripts Office at 641-472-7000 ext. 4235 for details.

The University may withhold transcripts if any of the following apply:

- A student has an outstanding balance with the University
- A student has borrowed money in the form of a Federal Perkins Loan or Federal Stafford Loan and has left the University without completing the required Exit Interview
- A student is past due or in default on their Federal Perkins Loan or Federal Stafford Loan payments.

Transcripts from other U.S. schools cannot be copied; the student must order them directly from the other schools.

REGISTRATION POLICIES

All students, including new and readmitted students, are required to complete their registration at an assigned time before the beginning of each semester. Students are advised when to arrive for this registration. Students who are authorized to begin classes later in the semester register on the Thursday or Friday before their first course begins.

Payment

All students must either make full payment, or make appropriate arrangements for payment, with the Enrollment Center at or prior to registration. Payment procedures and payment plans are described under the “Tuition and Fees” section in this Catalog. A student whose payments are past due may be suspended from the University; that means that the student will not be permitted to enroll or continue in courses, to remain on the meal plan, or to live in campus housing. Diplomas, certificates, or transcripts will not be issued to or for a student whose account is in arrears. Payments may be made at www.mum.edu/financial_services/payment.html

Course Enrollment

The University reserves the right to limit the enrollment in any course and to withdraw any course if too few students have registered or due to other unforeseen circumstances.

Changing Classes

The block system requires that even on the first day of the course much material must be covered. For this reason, students need to plan ahead; if unsure about which course to take, please meet with your advisor to make any changes to your schedule before the block starts. Current classes are listed at www.mum.edu/classes

To change from one course to another, students must come to the Enrollment Center to receive an “Admit to Class” paper. Students then give this “Admit to Class” paper to the new class’s professor. No changes are allowed after the first day of a two-week block or after the second day of a four-week block. Certain classes may require attendance from the first day.

Course Withdrawals

For courses up to four weeks in length: Students may leave a course for any reason during the first two days and will have the course removed from their record. After the end of the second day of the course and before the end of the second Monday, students may withdraw from a course for any reason and will receive a grade of W (course withdrawal) for the course on their record. Students leaving a course after the second Monday will receive a grade of NC for the course.

For courses longer than four weeks: Students may leave a course for any reason before the end of the second week of the start of the course and will have the course removed from their record. After the end of the second week of the course and before the completion of 25% of the course, students may withdraw from the course for any reason

and will receive a grade of W (course withdrawal) for the course on their record. Students leaving a course after this time will receive a grade of NC for the course.

In the event of course withdrawal due to illness or a family emergency, students may petition the Department of Student Life within thirty days of the last day of the course to receive a grade of W (course withdrawal).

It is advised that students consult with their academic advisor before withdrawing from a course. Students withdrawing from a course who live on campus may recover from illness in their room with the permission of Student Life, and then must either return to class, or move off campus for the remainder of the block, or engage in other activity as approved by the Department of Student Life. All other students withdrawing from a course must move off campus for the remainder of the block or engage in other activity as approved by the Department of Student Life.

Forms for course drop and withdrawal are available from the Enrollment Center or online at www.mum.edu/enrollmentforms.html This form must be completed for every withdrawal.

Development of Consciousness course requirements can be adjusted if students are less than full time in any semester. Students should contact the Development of Consciousness office to request a reduction.

Leaving the University

Students who wish to take a break from their studies need to inform their graduation advisor in the Enrollment Center before leaving campus. The Enrollment Center will remove the unattended classes from the student's record and fill out a "Change in Charges" form for the student if an adjustment of charges and/or refund is warranted. Students who are absent for an entire semester must apply for readmission through the Office of Admissions when they desire to return. See www.mum.edu/financial_services/reductions.html for details.

Directed Study

Directed study is allowed only in special cases, e.g. a course required for graduation not offered when the student can take it. Students may apply for Directed Study by following these guidelines:

1. The student must fill out a Directed Study form with the faculty who will supervise the course. Forms are available at the Enrollment Center or online at www.mum.edu/enrollmentforms.html

2. The Directed Study form must be signed by the Department Chair of the supervising faculty and the supervising faculty.
3. The form must be submitted to the Registrar in the Enrollment Center at least two weeks before the beginning of the course and must be approved by the Academic Standards Committee. Directed Study forms submitted after the block begins may not be accepted.
4. Directed Studies are allowed only on the Fairfield campus.
5. Development of Consciousness course requirements continue during Directed Studies.

Undergraduate students are limited to a total of eight (8) credits of directed study credit and a combined total of sixteen (16) credits of directed study and internship credit as part of their 128 required course credits for graduation.

Internships and Fieldwork

Internships and fieldwork must be supervised by a faculty member and approved in advance by the Department, the Director of Academic and Career Advising, and the Academic Standards Committee. Internships must meet the M.U.M. Internship Guidelines. Internship forms are available at the Enrollment Center or online at www.mum.edu/enrollmentforms.html. The form must be completed and submitted to the Director of Academic and Career Advising at least two weeks before the internship is to start. Forms submitted after the block begins may not be accepted.

Students doing internships or fieldwork in Fairfield are required to continue their Development of Consciousness course requirements as part of their internships. For internships outside of Fairfield, students must contact the Development of Consciousness office.

Undergraduate students are limited to a combined total of sixteen (16) credits of directed study and internship credit as part of their 128 required course credits for graduation.

Class Meeting Times

Classes in standard programs generally meet Monday through Friday from 10:00 a.m. to 3:15 p.m. with an hour break for lunch, and from 10:00 a.m. to noon on Saturday. Attendance at all classes is required. (Nonstandard programs have their own class schedules.)

Class Attendance and Participation

A significant educational experience consists of more than merely assimilating information. Each class session is a valuable opportunity to develop important skills, *e.g.*

communication skills. The focus of group attention on the topic, intellectual discussion, participation in question and answer periods, and small group projects — all these elements combine to make each class session an enjoyable and valuable learning experience. Faculty place as much value on what students experience in each class as on the information they gain.

For these reasons, attendance at every class and full participation in all aspects of the assigned curriculum are required.

Punctuality

Because every minute of learning time in each class is precious, great emphasis is placed on students being on time to every class. Most faculty will reduce a student's grade if the student is repeatedly late.

Attendance

Students are expected to attend and participate in all classes, except when they are sick or have a family emergency or other circumstances beyond the student's control. There are no "personal days" during academic blocks, and taking a class day off for other reasons will usually lead to a reduced final grade. Students should be especially vigilant with respect to days before or after holiday breaks. Such missed days are not considered excused absences.

Students who miss more than two sessions for a 1-credit course, four sessions for a 2-credit course, or six sessions for a 4-credit course, or the equivalent, for any or no reason, will not be given credit for the course.

Excused absences

If a student must miss more than two sessions for a 1-credit course, four sessions for a 2-credit course, six sessions for a 4-credit course, or eight sessions for a 6-credit course due to illness or family emergency, he or she will most likely be asked to withdraw from the course.

In the case of illness, students must notify their faculty immediately by email or telephone, and may be required to have the illness confirmed in writing by the MUM Campus Nurse or a licensed health care professional. In the case of a family emergency, students should notify their faculty or a member of the Department of Student Life. If students do not notify their professor of the reasons for their absence, the faculty will presume that the absence is unexcused.

The Associate Deans of Students are notified by the instructor in these situations. If a student has special circumstances justifying continued participation in a class in which he

or she has exceeded the allowable absences, the student will need to submit a petition to the Academic Standards Committee, which will determine if the student is allowed to continue.

Unexcused absences

Repeated unexcused absences are a violation of the code of student behavior in addition to leading to a reduced grade. In addition to academic consequences, students with repeated unexcused absences are subject to the following actions.

If a student misses six sessions of a 6-week class, four sessions of a 4-week class, or 2 sessions of a 2-week class for reasons other than the allowable sickness or family emergency, the student will be placed on Attendance Alert 1. If the student then has another unexcused absence in that class, the student will be invited to a conference with an Associate Dean of Students, who will place the student on Attendance Alert 2. If a student on Attendance Alert 2 misses yet another class without proper excuse, the Associate Dean of Students will call a Student Support Meeting, and the student will likely be suspended from the University.

Because of the importance of the first lesson of each course, students are expected to be present from the first lesson onward. Any student not present when the course instructor calls roll on the first day (except for such compelling reasons as illness or family emergency) may be asked to withdraw from the course.

Standard Enrollment

Students in standard programs normally register for 19 to 20 credits in each semester, 18 credits of instructional courses and one to two credits of DC courses. All students are expected to be enrolled in every block. Enrollment in nonstandard programs varies from program to program.

Double Majors

Undergraduate students may major in two disciplines by satisfying the departmental requirements for each. The second major must involve at least 24 credits of course work outside the first major department, and all course work for both majors must be completed before the degree is conferred.

Enrollment of Undergraduates in Graduate Courses

A senior who is within eight credits of graduation and who has been accepted to a graduate program may, with the approval of the academic department and the Dean of the Graduate School, take graduate level classes while completing requirements for the bachelor's degree. Admission to graduate study must be approved before course work applying to a graduate program is undertaken. Undergraduate students are not eligible for

graduate assistantships, other forms of graduate student financial aid, or those services and prerogatives normally reserved for graduate students. Students enrolled in graduate classes while enrolled in an undergraduate program will be given an undergraduate status until the baccalaureate degree has been awarded. However the graduate department may accept credit toward the graduate degree earned while the student was enrolled in an undergraduate degree.

Additional Courses for Graduate Students

A graduate student admitted with deficiencies in academic background may be required to take academic work in addition to the prescribed courses of a program. Credits earned in these courses generally do not count toward the minimum credit requirements for a degree.

Readmission

Students who have been away from the University for one semester or longer, have officially withdrawn from the University, or who have been suspended from the University must apply for readmission by completing an “Application for Readmission” form with the Office of Admissions. Readmission is not automatic; applicants are subject to admissions review.

Doctoral Research Off Campus

Candidates for the doctoral degree may, with the approval of the advisory committee, carry on some of the research work off campus. Arrangements for registration may be made by applying at the Enrollment Center. Please inform the Development of Consciousness Department when you are away from Fairfield so your DC course requirements can be adjusted.

Class Selection

Class selection is held each spring for the next academic year. All returning students who are attending classes at that time must complete class selection for the next year’s classes. The class selection form is available in the Enrollment Center and online at www.mum.edu/enrollmentforms.html The current course schedule may be viewed at www.mum.edu/classes The following year’s courses are added each April.

Course Numbering System

000–099	Technical Training or Certificate Courses
1xx and 1xxx	Undergraduate First-Year Courses
2xx and 2xxx	Undergraduate Upper Division Courses
3xx and 3xxx	Undergraduate Advanced Upper Division Courses
4xx and 4xxx	Undergraduate Advanced Upper Division Courses (open to some graduate students)

5xx and 5xxx	Graduate Courses
6xx and 6xxx	Advanced Graduate Courses

GRADING POLICIES

Evaluation of each student's abilities and achievements is an integral aspect of the University. Among the means of evaluation are class participation, oral and written examinations, projects, and papers. In addition, to receive academic credit for any course, students are expected to attend all classes and participate fully.

Grades are emailed to students for each course as soon as the Enrollment Center receives the grades from the faculty. Attached to each grade report, students also receive their full grade history, which includes the Grade Point Average (GPA) and Development of Consciousness grades for previous semesters.

The Development of Consciousness Department emails students their Progress Report after each Block.

General Grade Definitions

Grading for Instructional Courses

Grades Points (per credit)

AH 4.00 (A with Honors)

A+ 4.00 (exceptional)

A 4.00 (excellent)

A- 3.70

B+ 3.30

B 3.00 (good)

B- 2.70

C+ 2.30

C 2.00 (adequate)

C- 1.70

NC 0.00 (No Credit)

Grade Codes Not Used in Computing Grade Point Average

P Pass

NP No Pass

I Incomplete

W Withdrawal

PW Pass/Waive

AU Audit

- H Honors
NCR Course was repeated or replaced

Grading for Development of Consciousness Courses

Semester Grades

- H Honors
P Pass
NP No Pass

Grade Descriptions

Though professors may apply different standards in their courses, the faculty have agreed upon the following general descriptors for the basic four grades given for assignments, examinations, and courses at the University:

- A** The grade of “A” is given for work that is excellent. It is distinctive and exceptional. It goes beyond competence and exhibits a high level of insight, critical evaluation, and/or awareness of the subtleties or nuances of a subject. Any work meriting this grade succeeds as a coherent whole, with clear command of the details that make up the whole.
- B** The grade of “B” is given for work that is good. This work demonstrates basic comprehension of the major concepts of the course and competency with respect to the skills identified in the learning objectives of the course.
- C** The grade of “C” is given for work that meets the minimal expectations of the faculty as identified in the learning objectives of the course. Though not necessarily complete, this work is adequate to pass the course. The broad outline of the subject seems to have been grasped, along with many of the major concepts.
- NC (No Credit)** — This grade is given to work that substantially misses the broad goals of the course as outlined in the syllabus. This work does not demonstrate comprehension of the assigned work, even at a basic level. This work may have been done without fully reading the assignment and/or coming to class. The grade of “NC” is also given for failure to complete 70% of the required work in the course (e.g. class participation, homework and other assignments) and for excessive absences as described above.

P, NP, NC (Pass//No Pass/No Credit) — These grades are used in many Forest block courses, as well as in laboratory, fieldwork, practicum courses, and occasionally for other courses. The “P” grade is not included in the GPA, but is equivalent to a “C” or

better for undergraduate students and a “B” or better for academic courses for graduate students.

- I (Incomplete)** — This grade can be given for major academic work that cannot be completed by the end of the block due to illness, family emergency, or other complications beyond the control of the student that caused the student to miss six sessions or fewer of a four-credit class, or the equivalent. It is not meant to be given for major work that is missing because a student could not complete it in the allotted time of the course. Nor should the Incomplete grade be used to make up more than six sessions of missed class time of a four-credit class, or the equivalent; a student who has missed more than the allowable sessions will receive a grade of NC or W (if due to illness or family emergency upon successfully petitioning). The student must request an Incomplete from the course instructor before the end of the course, and the instructor may require documentation supporting the student’s reason.

A grade of I will be valid for 32 days from the end of the course. The student must turn in the missing work within 32 days after the end of the course in which the Incomplete was given, and the instructor will submit a change-of-grade form to the Registrar. In all cases, once the time to make up the Incomplete has elapsed, if the work has not been completed, then the Registrar automatically changes the I grade to NC. This means that after that point, the NC grade cannot be changed to another grade by the faculty member.

- W (Withdrawal)** — This grade is granted under certain circumstances. (See “Course Withdrawals” listed above.)

- PW (Pass/Waive)** — This grade is used to indicate a course waived by examination. No hours of credit are awarded.

- AU (Audit)** — To audit classes, students must have the written approval of both the instructor and the Academic Standards Committee before the course begins. Petition to Academic Standards Committee forms are available in the Enrollment Center or online at www.mum.edu/pdf_enrollment/academic_standards.pdf

Financial Aid does not apply to audited classes; students are required to pay full tuition for all audited classes. (Although visitors often sit in on individual class sessions, anyone who sits in on an entire course is required to officially register as a student.)

No credit is given for a course in which the student receives a grade of AU. However, Auditors are expected to participate fully in the class including taking the final exam. If the student does not fulfill this requirement, a grade of “NC” will be given for the course and the NC will be included in the student’s GPA.

H (Honors) — This grade is added to an instructional course grade when a student has completed the Honors requirement for that course. (See below.) “H” can also be used by itself as a semester grade in Development of Consciousness courses.

NCR (No Credit Repeated) — This grade means that the course was repeated later for a passing grade or was replaced by another course and that this grade has been removed from the GPA. Grades of CR, C-R, C+R, etc. are also possible if courses graded as C, C-, or C+. etc. are retaken and a higher grade is achieved.

Grade changes

All grade changes must be approved by the course instructor or department chair and submitted to the Enrollment Center. The changes are then entered on the student’s record. Approval is subject to review by the Academic Standards Committee.

Appealing a Grade

Students who wish to appeal a grade should first discuss the matter with the course instructor. If that does not settle the appeal satisfactorily, then the student has until 30 days after the grade was sent out by the Registrar to file a written appeal with the department chair or, if the instructor was the department chair, with the Dean of Academic Programs (for undergraduate students) or the Dean of the Graduate School (for graduate students).

Honors for Undergraduates

1. An Honors Component may be available for undergraduate courses. Completion of the Honors Component and a grade of A or A- is required in order to receive Honors. The Honors grade will be reflected on the transcript.
2. Undergraduate students achieve the President’s Honor Roll for each semester in which they complete at least 12 credits of instructional course work with a grade point average of 3.70 (“A-”) or higher, and receive no NC or NP grades.
3. The faculty award graduation honors (summa cum laude, magna cum laude, and cum laude) to undergraduates based on the student’s academic excellence and holistic development.

Honors for Development of Consciousness

Students can achieve Development of Consciousness (DC) Honors for each semester in which they attend at least 180 group programs. These students will receive a grade of H.

Repeating a course for a higher grade

Repeating a course for a higher grade is permitted in rare cases with approval of the Registrar and the course instructor. Credit is given only once, but the registration and grade for both courses will appear on the transcript. Only the higher of the two grades is used in calculating the GPA beginning with the semester in which it is earned.

If there have been extenuating circumstances, a graduate student may request to retest on an examination as long as: 1) the student has received a grade of less than a B but higher than an NC on an examination, 2) the student understands that no matter how well they perform on the retest, their final grade for the *course* cannot be higher than a B, and 3) the nature, extent, and preparation for the retest is determined on a case-by-case basis by the course instructor.

DEVELOPMENT OF CONSCIOUSNESS PROGRAM GRADUATION REQUIREMENTS

Maharishi University of Management offers *Consciousness-Based education*. This approach has its foundation in the *development of consciousness*. The Department of Development of Consciousness offers the technology to systematically develop each student's consciousness.

The development of consciousness through the regular practice of Maharishi Transcendental MeditationSM (TM[®]) technique is a core value of the University and an integral component of the academic program. Four decades of scientific research have shown Transcendental Meditation to be highly beneficial to student success and the promotion of campus harmony. For this reason all students are required to practice the Transcendental Meditation technique twice a day in the morning and afternoon.

All students as part of their required Development of Consciousness course each semester practice the Transcendental Meditation technique. Many students also learn the advanced TM-Sidhi program, including Yogic Flying, and practice this as part of their Development of Consciousness (DC) course. Students are automatically enrolled in DC courses for every semester they are enrolled. Academic credit is given for these courses. Students receive credit for successful completion of these courses in each academic

semester. Undergraduates can apply up to 16 credits toward their required graduation credits, and are required to receive a passing grade for each semester they are enrolled.

Students practicing the Transcendental Meditation technique participate in DC 320 for undergraduates or DC 520 for graduate students. Those who have also learned the TM-Sidhi program (Sidhas) take DC 332 for undergraduates or DC 535 for graduate students.

Goal of the Development of Consciousness Program

To support students' experience and understanding of their own practice of the Transcendental Meditation program and promote maximum growth of consciousness throughout their time of study at the University.

Course of Study

- 1. Personal instruction in the Transcendental Meditation technique** — This is built into the students' first course if they have not already learned the TM technique before coming to Maharishi University of Management. If a student is already practicing the TM technique, then he/she will take a refresher course during their first course.
- 2. Regular twice-daily practice of the Transcendental Meditation technique or the TM and TM-Sidhi programs** — All the principles and policies of Maharishi University of Management are designed with the aim of supporting the growth of every student toward enlightenment, a state of mind and body in which all one's intellectual, emotional and spiritual resources are available for every decision. The fundamental practice to realize this goal is the twice-daily practice of the Transcendental Meditation technique, preferably in the large group setting in one of the program halls set up by the Department of Development of Consciousness.

- **Morning Transcendental Meditation (TM) technique** —

For Meditators (those who practice the TM technique) this is a full 20-minute meditation. We encourage students to join the group in the meditation hall closest to their dorm for this meditation, but students may meditate in their rooms. Maharishi Yoga Asanas (10 minutes) and Pranayama, a simple breathing exercise, (5 minutes) should be completed just before meditation and should be scheduled into the morning routine.

For Sidhas (those who have learned the TM-Sidhi program) this means the full program as instructed, including Yogi Flying. We encourage students to join the group in the Domes or Flying Halls, but students may also do this in their rooms. Maharishi Yoga Asanas (10 minutes) and Pranayama, a simple breathing exercise, (10 minutes) should be completed just before the TM and TM-Sidhi program and

should be scheduled into the morning routine. Sidhas need to attend at least 5 group programs each week in the Domes or Flying Halls.

• **Afternoon Transcendental Meditation (TM) technique —**

For Meditators, this is a full 20-minute meditation. To make it easy for students to enjoy the benefits of regular group meditation, during afternoon class Monday through Friday they do Pranayama and meditate as a group with their classroom teacher from 2:50 – 3:15 p.m. We encourage doing Asanas in their rooms after this meditation. On Saturdays and Sundays, the afternoon meditation can be done in the Meditation Halls or in their rooms. ***Note:** If not enrolled in a formal class during a block (i.e., if enrolled in an internship, a directed study, a graduate evening/weekend program, a Ph.D. course, etc.), the student needs to attend group program in the supervised Meditation Halls an average of 5 times per week. Students in this situation should contact the Department of Development of Consciousness.*

For Sidhas, this means the full program as instructed, including Yogi Flying. We encourage students to join the group in the Domes or Flying Halls, but they may also do this in their rooms. Maharishi Yoga Asanas (10 minutes) and Pranayama (10 minutes) should be completed just before meditation and needs to be scheduled into the afternoon routine. Sidhas need to attend at least 5 group programs each week in the Domes or Flying Halls.

Note: There is also a 10-minute in-class meditation before lunch each day for everyone. This is to help students integrate the morning's instruction.

3. One All-Campus DC Meeting each semester — Once a semester all students, both Meditators and Sidhas, gather to discuss the development of consciousness program and their experience of the growing integration of life that is the goal of this program.

4. Individual Checking of the TM practice —

- **New Meditators, less than 4 months of regular TM practice: 4 (1 per block)**
- **Continuing Meditators, more than 4 months of regular TM practice: 1 per semester**
- **Sidhas: 1 per semester**

In this simple procedure, a student meets with a Transcendental Meditation teacher for about a half-hour and goes through a step-by-step process of effortless practice of the TM technique. This process is designed to ensure that every student has the smoothest and most enjoyable practice of the TM technique.

5. One Residence Course or World Peace Assembly in the first semester — Students take these courses as part of their first course at the University. They offer a unique and precious opportunity for a more extended meditation and rejuvenation in the context of a settled and well-structured routine. (If a student cannot take the course offered as part of their first block, he/she should arrange to take one of the courses offered between some blocks to make up this requirement.) Students often find themselves revitalized after the deep rest even these couple of days affords.

6. Additional Residence Courses and World Peace Assemblies are incorporated into many of the Forest Academies and between two blocks each semester. They are available to students who enjoy this extra meditation time.

DC Course Grading for New and Continuing Meditators

For P or Pass grade students must complete the following:

1. Complete the course of instruction in the TM technique.
2. Join in-class group practice of the TM technique Monday – Friday each week, or 20 per 4-week block, 10 per 2-week block in the Meditation Hall.
3. Attend one All-Campus DC Meeting each semester.
4. Individual TM checkings scheduled over the semester as described above. (4 for New Meditators, 1 for Continuing Meditators)
5. Attend a residence course in the first semester.

For H or Honors grade students need to complete all of the above plus at least 90 additional group programs per semester in the Meditation Hall.

A grade of NP or No Pass means the student will need to complete the missing requirements as soon as possible. All DC course requirements must be completed before the next Fall registration. Passing this course each semester is required for graduation.

DC Course Grading for Sidhas & Governors

For P or Pass grade students must complete the following:

1. Attend at least 90 group programs (Domes or Flying Halls) each semester. (an average of 5 per week, 10 for each 2-week, 20 for each 4-week block)
2. Attend one All-Campus DC Meeting each semester.
3. Have one individual TM checking each semester.
4. Attend a World Peace Assembly in your first semester.

For an H or Honors grade students need to complete all of the above plus at least 180 group programs per semester.

A grade of NP or No Pass means the student will need to complete the missing requirements as soon as possible. All DC course requirements must be completed before the next Fall registration. Passing this course each semester is required for graduation.

Tracking Progress in the DC Program

This program of knowledge and experience of consciousness has been designed to support, in as comfortable and balanced a way possible, the sustained growth of intelligence, creativity, and organizing power in the student's life. The development of consciousness has been integrated into all aspects of college life to enable students to achieve absolute freedom in life.

To achieve these ends, the faculty asks that students monitor their participation in the program and attend all of the knowledge and experience sessions (All-Campus DC meetings). The Development of Consciousness Office will also generate regular, individualized reports on students' participation to help every student meet the above requirements each semester. We ask students to pay attention to these reports and be in regular communication with the DC Office to make sure that they meet the requirements in time and without strain.

To Continue Enrollment and Graduate from Maharishi University of Management

To enroll each Fall semester, students must have finished all DC course requirements for all previous semesters. This will bring their DC course grades up to passing. If not completed, students will need to take care of this before they are eligible to register and attend classes.

To graduate and receive a degree from Maharishi University of Management, students need to pass the Development of Consciousness course every semester enrolled.

Development of Consciousness Office

Dreier Building • Room 118

Generally open Monday-Friday 10:00 am to 4:00 pm

You can stop by or contact us for an appointment

Telephone: 919-6627 (Rod Eason) • 472-1114 (Kris Wood) • 472-1116 (Paul Handelman)

E-mail: reason@mum.edu • dc@mum.edu • klwood@mum.edu • phandel@mum.edu

- Special exceptions to DC policies are considered case by case by the DC Directors in conjunction with the DC Advisory Board and the Academic Standards Committee. These exceptions include graduate students needing to do research at other universities, childcare situations, illness, etc.
- The Department of Development of Consciousness faculty is available to help students with any questions they may have about the TM technique, scheduling into their daily routine, scheduling a TM checking, advanced programs, etc.

HEALTH-RELATED FITNESS GRADUATION REQUIREMENT POLICIES

All undergraduate students must complete a knowledge-based graduation requirement entitled “Health-Related Fitness.” This course is required as the second forest academy of first year.

Undergraduate students are strongly recommended to participate in four hours of dynamic physical activity each week and to request a fitness assessment each semester. This fitness program is an individualized flexible program that is designed and implemented by each student. The faculty in the Department of Exercise and Sport Science are available to assist the students to plan and implement their individualized health and fitness program.

MONITORING STUDENT PROGRESS

Maintaining Satisfactory Academic Progress and Eligibility to Attend the University

To maintain satisfactory academic standing and financial aid eligibility, students must meet four standards listed below. These standards are evaluated at the end of each semester. If a student is not meeting any one of these standards, the student is placed on “Academic Warning” for that standard for the following semester. A student not meeting that standard by the end of the “Academic Warning” semester will no longer be eligible to attend the University. Students on academic warning are not eligible for Rotating University courses or directed studies.

1. Passing Grades

A grade of “NC” requires academic counseling through the Student Success Center. The student is placed on “Academic Warning” for the following semester. A student who

receives three NCs in any two consecutive semesters is ineligible to continue at the University after the semester in which the third NC took place, with no additional “Academic Warning” semester. Three NCs in one semester also leads to ineligibility to continue attending the University at the end of that semester.

2. Grade Point Average

Undergraduates must maintain a 2.0 Grade Point Average, and graduates must maintain a 3.0 GPA. Repeated courses use only the higher grade. Transfer credits earned at other institutions are excluded from the GPA calculation. Once again, students who fall below the designated level are put on warning for the next semester.

3. Completion Rate

Undergraduate students must complete two-thirds of instructional credits attempted within the current degree (excluding DC and REC courses). Unattended courses are removed from the student’s record and are therefore excluded. Grades of “W,” “NC,” “NCR,” “NP,” “I,” and “AU” are counted as credits attempted but not completed. Transfer credits are excluded from this calculation as a basis for eligibility to continue to attend the University.

4. Maximum Time Frame

Undergraduate students may attempt a maximum of 150% of the number of credits normally required to complete their program. For example, an undergraduate degree requires 128 credits (including up to 16 Development of Consciousness credits), so undergraduates may attempt a maximum of 192 credits to complete their program, including transfer credits, double majors, and switching majors. A student who has 174 credits is placed on “Warning” status the following semester.

Appeal, Probation, Loss of Aid Eligibility to Attend, and Reinstatement

Appeals to loss of eligibility after the “Academic Warning” semester must be made in writing to the Academic Standards Committee through the Registrar within three weeks of students’ receipt of notification of their ineligibility.

Appeals will only be granted to students who can demonstrate that the circumstance leading to their inability to meet any one of these standards was unexpected and beyond their control, and that the problem is not likely to occur again. If the appeal is granted, the student will be placed on “Academic Probation” for the following semester, and must meet the standard by the end of that semester.

Reinstatement may be achieved after all of the four standards and any other specific conditions required of the student have been satisfactorily met by the end of the “Probation” semester.

Development of Consciousness (DC) Alert

Students are placed on DC Alert when they do not receive a passing grade in their Development of Consciousness course for any semester or have a very low group program attendance in the first half of a semester.

DC Alert is not listed on the student’s transcript but does require the student to meet with faculty from the Department of Development of Consciousness before registering for the next semester. At this meeting, a strategy is developed with the student to help them correct the situation. As part of this strategy, the student is required to pass their next semester’s DC course.

Students have until the registration for the next academic year to bring any NP grades in DC courses up to passing. If they have not, students may be required to wait to register for classes until this has been completed.

Suspension

Students are eligible for suspension from the University if they do not meet satisfactory academic progress as listed above, do not fulfill the terms of DC Alert, or if they violate the code of student behavior as outlined in the Maharishi University of Management Student Handbook. Also if they don’t pay their outstanding charges as mentioned above

The Student Handbook describes the code of behavior, the procedures that are followed when a student is reported to have violated that code, the possible results of a behavioral infraction, the consequences of suspension, and the policy for an appeal of a decision.

The Maharishi University of Management Handbook may be found at

www.mum.edu/pdf/student_handbook.pdf

A suspended student must apply for readmission through the Office of Admissions before returning to the University.

Additional Points for Graduate Students

- **Master’s programs** — Some departments will not permit students to remain in a program if there is an accumulation of more than a specified number of graduate credits with lower than a “B” grade even though the overall Grade Point Average is 3.0. Students who fail to meet the standards set by the department may be required to withdraw at the end of any block.

- **Doctoral programs** — These programs require a grade of “B” or higher in all courses. Doctoral students who are unable to meet the standard of doctoral quality work, as determined by the advisory committee, may be asked to withdraw at the end of any block. At the end of each semester, the advisory committee interviews all doctoral students to evaluate and discuss their progress in the program.

ACADEMIC HONOR CODE

Personal integrity, honesty, and honor are essential qualities of an ideal student and a developing leader. The University has established an Academic Honor Code that sets forth the standards of academic honesty and personal integrity expected of all students.

Academic Honor Code Guidelines

The purpose of observing the traditional standards of academic honesty is to promote an ideal learning experience. Students learn and grow when they receive feedback on their own thinking and its products, and when they use that feedback to improve. Furthermore, students experience progress when something they themselves have composed receives positive feedback and support from another, whether it be a classmate or a professor. Consequently, the following principles govern the assessment of student work at the University.

- Any work represented as one’s own must be the product of one’s own thinking and research. This applies to all assigned work, including papers, examinations, quizzes, and oral presentations. In composing papers, students are encouraged to seek feedback from others on the work in progress but are expected to do the writing themselves.
- Any ideas drawn from other sources must be properly credited. This includes not only direct quotes, but also ideas drawn from course syllabi, videotaped lectures, and other University-related publications. All sources used verbatim should be credited by quotations, including unpublished work. (For further details see plagiarism guidelines below.)
- If a student knowingly allows another student to copy his or her work, that student will be subject to the same remedial consequences as the student who copied.
- Students who take responsibility for attendance or any other records contributing to the final course grade are required to be faithful and accurate in their reporting.
- Students who become aware of a failure to uphold the standards of the Honor Code are required to notify the faculty member teaching the course.
- As Development of Consciousness is a required program, the standards of the Academic Honor Code apply to this program. Any action which misrepresents a

student's attendance status for one or more programs is not honest. Some examples of dishonesty in this area are as follows:

- 1) passing your badge through the bar code scanner and not attending the program or event
- 2) leaving program or events early without signing out
- 3) having another student pass your badge through the scanner
- 4) passing another student's badge through the scanner.

Consequences of Academic Honor Code Violations other than Plagiarism

For reported Academic Honor Code violations other than plagiarism, the alleged violator will meet with the course instructor and/or the department head, at the discretion of the course instructor, and, for more severe or repeated reported violations, with the Academic Standards Committee or a subcommittee thereof ("the Committee") and the course instructor.

A course instructor may decide to lower a grade on an assignment, even to an NC, and the department head may decide to give a student a "No Credit" for a course. The instructor will notify the Dean of Teaching and Learning of all violations. Decision to suspend a student can only be made by the Committee, which will review the situation and determine the outcome based on the facts and circumstances of the behavior in accordance with the procedures outlined below.

Definitions and Consequences of Plagiarism

It is of the utmost importance that students reference any and all textual material used in their writing done for class, and that specific words borrowed from other writing are footnoted—in homework assignments, examinations, and projects completed for a class.

Consequences for plagiarism vary with the levels of severity described below. Three factors considered in the determination of severity are length of the citation, whether the misrepresentation was intentional or not, and whether the plagiarism was substantive or semantic only (using others' words but not their ideas):

Level 1. Accidental, involving two or three sentences at most

Definition: Plagiarism that involves lifting anything from a phrase to a few sentences from another source and neglecting to cite that source, not realizing the significance of the offense or simply forgetting to cite the source.

Consequence: Leads to a meeting with the professor and a warning. The Department Chair of the department in which the course is offered is also notified.

Deciding Agency: Classroom professor

Level 2. Accidental, but longer passages; or contributions intentionally attempting to misrepresent another's work as one's own, from a phrase or a sentence to a paragraph or two; or an idea that is claimed as one's own; or a repeat in the same or a subsequent course of a level one mistake in the department in which the student received a first warning.

Definition: A full paragraph or more, even when claimed to be accidental, requires more attention to accomplish and therefore has more serious consequences. A more severe instance is when a student inserts several sentences or a paragraph with the intention to claim another's work as his or her own. Or the student presents an idea as his or her own when the same idea is clearly presented elsewhere by another writer.

Consequence: Anything from NC on the assignment to an NC in the course and academic probation, depending on the length, intentionality, and substantive nature of the offense. A faculty facing this kind of violation will decide the proper consequence with his or her Department Chair and notify the Dean of Teaching and Learning.

Deciding Agency: The professor in consultation with the Department Chair.

Level 3: Submitting another's paper or work as your own; a repeat in the same or a subsequent course of a level two offense, while a student is on academic probation for a prior offense.

Definition: A student presents a paper, project, or other intellectual property as his or her own, which is subsequently established to be borrowed, stolen, or purchased from another author.

Consequence: Suspension immediately and continuing for two semesters subsequent to the semester in which the student is enrolled; student has to leave campus.

Deciding Agency: The Department with the Academic Standards Committee.

Academic Honor Code Violations Referred to Academic Standards Committee

In the event a reported Academic Honor Code violation is referred to the Academic Standards Committee or a subcommittee thereof ("the Committee") for consideration, the student will be given reasonable notice of the time of the meeting and the nature of the concern. The student may choose to invite his or her academic advisor and/or one member of the Global Student Council to join the Committee (optional). The student may also invite his or her parent, or one other MUM student, faculty member, or administrator

to attend; however, this person will not be a member of the Committee. Individuals with relevant information may be invited to attend to offer such.

The Committee reviews any observations, statements, or reports of Code infractions, and confers with the student to gain his or her explanation about them. The student and those not on the Committee then leave the meeting, and the Committee then determines 1) if it is more likely than not that any Code infraction appears to have occurred, and if so, 2) what measures, if any, should be taken. Only the Committee members are eligible to vote on any measure proposed by one or more of its members. If the student in need of attention elects to not attend the meeting, the Committee will meet without the student and decide what corrective measures if any, the University should take.

The Committee will determine the appropriate consequence, which may, among others, include warning, grade reduction on the assignment or course, probation or suspension.

The Committee's decision will be communicated to the student in writing and will include the reasoning behind the decision. If the student is placed on either probation or suspension, the terms and period will be noted. A copy of the letter will be placed on file in the Office of the Dean of Teaching and Learning. A memo indicating that a student has been suspended will be given to the student's advisor and placed in the student's file in the Enrollment Center. However, warning, probation, and suspension information will not be placed on the student's transcript.

In case of suspension, any student residing on campus generally must move off campus within 48 hours. However, the Committee may require an earlier departure or approve a later departure in light of the circumstances. Students suspended from the University must check out with Housing (see Housing: Room Check-Out Procedures section), the Graduation Director, and Financial Aid, and are subject to the University's Refund Policies.

Students who have been away from the University for one semester or longer and students who have been suspended for any reason must apply and be accepted for readmission by completing an "Application for Readmission" form with the Office of Admissions. Readmission is not automatic; applicants are subject to admissions review.

Appeals

Students may file appeals if they believe that there has been a significant substantive or procedural error that significantly impacted the outcome of the meeting; or that significant evidence has been overlooked, or the conclusion of the Committee is not supported by the facts; or that new and significant evidence has become available, not

available during the initial meeting, that can significantly impact the outcome. Appeals must be made in writing within 72 hours of receiving the Committee's written notification. The appeal should outline the basis for it in light of the above criteria. Appeals of decisions made by the course instructor are submitted to the department head for final review. Appeals of decisions made by a department head are submitted to the Academic Standards Committee for final review. Appeals of decisions made by Academic Standards Committee or a subcommittee thereof are submitted to the Dean of Faculty of the University for final review.

ADMISSIONS

General Admissions Statement

Maharishi University of Management was established for the purpose of providing an education that allows the individual to unfold and achieve their full potential. Maharishi University of Management is committed to the goals set forth by our founder Maharishi Mahesh Yogi which are: To realize the highest ideal of education; To develop the full potential of the individual; To maximize the intelligent use of the environment; To improve governmental achievement; To solve the problems of crime, drug abuse, and all behavior that brings unhappiness to our world family; To bring fulfillment to the economic aspirations of individuals and society; To achieve the spiritual goals of humanity in this generation.

Maharishi University of Management is committed to providing students the unique experience of Consciousness Based Education. Consciousness Based Education is education that provides Enlightenment to the student, and has four primary components: 1) Academic excellence – study of traditional subjects in the light of consciousness – a unifying framework. 2) Direct development of consciousness through the twice daily practice of Transcendental Meditation and the advanced TM-Sidhi program including Yogic Flying. 3) Consciousness-Based teaching and learning techniques that develop holistic awareness. 4) Stress free routine and nourishing environment.

STUDENTS ARE ASKED TO APPLY ONLINE AT

www.mum.edu/apply

Applicants who plan to enter in the Fall semester (generally beginning in mid-August) should submit their completed applications no later than July 15. (For students applying to the master's degree cooperative programs, the deadlines may differ.) For all students planning to enter in the spring semester, the date is December 20. Applying by these dates gives applicants the best opportunity for receiving the maximum financial assistance if accepted, and helps assure space being available in the program for which they are applying. Applications received after these dates will also be considered and, in many cases, programs will be able to accommodate additional students.

To be considered for admission, prospective students should complete all aspects of the application process.

UNDERGRADUATE ADMISSIONS

Criteria for Undergraduate Admissions

Applicants to the undergraduate programs are considered for admission after a comprehensive evaluation of their completed applications including essays, high school records (and previous college records, if applicable), SAT or ACT scores (if required), recommendations, supplemental experience form, and an interview with an Admissions Representative. Applicants must express a sincere desire for Consciousness Based Education. If time allows applicants are also requested to learn the Transcendental Meditation technique before enrolling at Maharishi University of Management.*

*The Admissions Office can help each applicant connect with a qualified instructor of the Transcendental Meditation technique.

- ***Transcendental Meditation*** — Each applicant is strongly encouraged to learn the Transcendental Meditation technique before enrolling at Maharishi University of Management.
- **Supplemental Experience Form** — Applicants are required to submit a Supplemental Experience Form that gives a detailed account of what the applicant has been doing since finishing high school. The supplemental experience form should include any jobs, schools, volunteer work, etc. The supplemental experience form is similar to a resume, and should give a chronological (year to year) account of the applicant's life history.
- **Essay** — Applicants are required to submit an essay, the essay is a series of questions that should be answered in a comprehensive, and well thought out manner. The Essay may include the following questions: What person do you admire, What are your personal and professional goals, What do you wish to gain from Maharishi University of Management, How do you feel about the daily routine at Maharishi University of Management, How do you feel about the drug and alcohol policy at Maharishi University of Management.
- **Professional Recommendations** — Applicants are required to provide two professional recommendations. Recommendations may be from teachers or employers who have had professional relations with the applicant within the last year.

- **Academic Record** — Applicants are required to provide a record of high school transcripts (and previous college records, if applicable), SAT, ACT, or COMPAS test scores (if required). A grade point average of at least 2.5 (when applicable). Exceptions to GPA requirements may be made for specific situations.
- **Admissions Interview** — An interview with an admissions counselor is a required part of the application process for both undergraduate and graduate programs. When a visit to the campus is not possible, this is done over the telephone, often via Skype.
- **Visitors Weekends** — We offer ten Visitors Weekend Courses throughout the year. These weekend courses for prospective students and their parents provide a complete introduction to the University and are highly recommended for anyone seriously considering enrolling at Maharishi University of Management.
- **Application Deadline for Admissions and Financial Aid** — The academic year begins in mid-August. New students enroll at this time. For spring semester (which begins in mid- January), new students enroll in January.

High School Verification

Applicants who did not complete their high school study are required to submit one of the following: 1) General Educational Development (GED) certificate; or 2) a certificate of completion of a home-study program if the program is recognized by the student's home state, or if the program is not recognized by the student's state, the state must not consider the student to be in violation of truancy laws. Home-schooled applicants must also submit a complete home schooling record. All certificates and transcripts from high schools, colleges, and correspondence schools should be sent directly from the school or state agency to the Admissions Office.

While applicant's previous academic performance is a primary consideration, commitment to gaining maximum benefit from the educational opportunities offered at Maharishi University of Management is an equally important consideration in the admission process.

GRADUATE ADMISSIONS

Additional Criteria for Graduate Admissions

Individuals who have earned a bachelor's degree, or are in their senior year of college, may apply for admission to a program of graduate study at the University. Admission decisions are based upon the applicant's academic record in undergraduate programs, other graduate programs (if applicable), graduate entrance examination scores, experience, personal qualifications, recommendations, and proposed program of study. Applicants must express a sincere desire for Consciousness Based Education. Applicants

are also requested to learn the Transcendental Meditation technique before enrolling at Maharishi University of Management.

Grade Point Average (GPA)

A grade point average of at least 3.0 (on a 4.0 scale) in the third and fourth years of undergraduate study is required by the Graduate School for regular admission to graduate programs. Exemptions are granted for specific situations.

TRANSFER STUDENTS

Maharishi University of Management welcomes qualified transfer students. For the number of credits that may be transferred by undergraduate and graduate students, the method for evaluating those credits, and residency requirements, please refer to “Transfer Students” in the “Graduation” section of this Catalog. All transfer approval must be completed within the student’s first semester at the University, except for students receiving Veterans’ Educational Benefits (evaluation is done automatically upon enrollment).

Transfer students applying for U.S. financial aid must submit all transcripts from all previous schools to the Office of Admissions. Before financial aid can be awarded, these transcripts must be reviewed to determine class standing and eligibility.

INTERNATIONAL STUDENT ADMISSIONS

Application Deadlines

Maharishi University of Management welcomes international student applicants for all the University’s programs. In order to process applications and immigration forms in a timely way, completed applications, including all required documents, should be received by the Office of Admissions no less than one month in advance of the start of the new academic semester or program starting date. International students who are interested in applying to Maharishi University of Management should request instructions and admission materials well in advance of this date.

STUDENTS ARE REQUESTED TO APPLY ONLINE AT
<http://mum.edu/apply/welcome>

Academic Records

An official copy of all records of any previous schooling (mark sheets, transcripts, diplomas, certificates, etc.) must be submitted as official certified documents directly from each institution. Any photocopies must have the signature of a school official and the school seal. These records must show courses taken and grades earned and must be

translated into English if the original records are in another language. When a translation is supplied, the original record must also be included. Translations must be officially certified by a translator or interpreter. All records should be mailed to: Admissions Department, Maharishi University of Management, 1000 North Fourth St., Fairfield, IA 52557, U.S.A.

Visa Procedures

Once the application for admission is approved, a University acceptance letter and a U.S. Immigration Service SEVIS I-20 form will be mailed to the applicant. A prospective international student should not make plans to enter the United States before obtaining their F-1 student visa. It will be necessary to present both a letter of acceptance and a SEVIS I-20 form at the U.S. Embassy/Consulate, when applying for an F-1 student visa, and again upon arrival into the United States, and finally, during registration at the University. If further documentation is needed in obtaining a student visa, please contact the Office of International Admissions.

Financial Statement

International students must provide evidence of financial ability to pursue a course of study at Maharishi University of Management before the letter of acceptance and the SEVIS I-20 form can be generated and mailed. Financial assistance is available for those who demonstrate academic promise, financial need, and a strong commitment to develop their full potential and the potential of their nations. Students must provide a letter from their bank to the Office of International Admissions verifying the availability of funds to meet their educational expenses for at least one academic year. Using this verification, the University can then issue a SEVIS I-20 form, which is needed to obtain a student visa.

Please note that the U.S. Immigration Service strongly discourages and usually disallows international students from entering the U.S. on a Visitor visa and then attempting to change status after arrival. The only exception to this rule would be to make clear at the Port of Entry that one is coming as a “Prospective Student” and ask that this particular designation be made on the I-94 card. Otherwise, an application for Change of Status from Visitor to Student will most certainly be denied. Furthermore, a Prospective Student is not allowed to register and enroll unless and until any Change of Status application is approved (a process that can take several months). Because of these strictures, the University has a policy of only registering students who have obtained the proper student visa.

Health Insurance

Due to the high cost of medical care in the U.S., all international students must purchase health insurance through the University at the time of registration. Students are exempt

from this requirement if they can show at registration that they have adequate coverage under their own insurance.

This health insurance requirement is based on our concern that our international students are (1) adequately covered in the event of accident or illness, (2) able to receive the most complete and up-to-date medical care available, and (3) not incurring large financial losses as a result of a medical emergency while in the United States.

English Proficiency

All applicants who are not native English speakers must submit official TOEFL or IELTS test scores. Scores on the Compass ESL placement test are acceptable as well.

Students may register for the TOEFL and request that scores be forwarded to the University at the time of the test; or by writing to the Educational Testing service, Box 592, Princeton, New Jersey 08540; or by e-mailing the contact form at www.toefl.org/contact.html The University's college code number for this purpose is 4497.

English Proficiency Scores

Students applying to Undergraduate Programs with scores below 6.0 on ELTS, 550 TOEFL paper-based, 213 TOEFL computer-based and 79 TOEFL Internet-based will be assessed to take Intensive English classes (offered at Maharishi University of Management) prior to enrolling in degree program classes.

Students applying to Graduate Programs with scores below 6.5 on IELTS, 575 TOEFL paper-based, 232 TOEFL computer-based and 90 TOEFL Internet-based will be assessed to take Intensive English classes (offered at Maharishi University of Management) prior to enrolling in degree program classes. (Students applying to MA teaching tracks need higher scores. Talk to an Admissions Counselor for details.)

SPECIAL PROGRAM ADMISSIONS

Special admissions procedures and requirements for the special courses and programs offered by Maharishi University of Management are described below.

The Science and Technology of Consciousness

This course is the foundation for all University undergraduate programs. The Science and Technology of Consciousness course (STC 109/109) is the first course for any undergraduate student coming to the University; however, it can be taken by any interested person (even if not enrolled in a degree program) whenever it is offered, by applying through the Office of Admissions.

The Science of Creative Intelligence Course

This course is the foundation for all University graduate programs. The Science of Creative Intelligence course (FOR 500) is the first course for any graduate student coming to the University; however, it can be taken by any interested person (even if not enrolled in a degree program) whenever it is offered, by applying through the Office of Admissions.

Special Students

- **Special Undergraduate Students** — Anyone not seeking a degree may take regular undergraduate courses for up to one year. These individualized programs offer the advantages of a Maharishi University of Management education to those who do not wish to enroll as degree-seeking students. Credit is generally transferable to other universities.
- **Special Graduate Students** — Students desiring to take additional study beyond the bachelor's degree, without intending to earn a graduate degree, may apply for admission for non-degree status. Students may transfer up to 8 credits earned in this non-degree status to a regular degree program with the approval of the Academic Standards Committee, the academic department, and the Dean of the Graduate School. For the master's degree, the final 40 credits generally must be earned at the University in a degree-seeking status. For the doctoral degree, credits earned while in this non-degree status will be reviewed by the student's department faculty and/or advisory committee for possible acceptance as part of the requirements for the degree. Special graduate students generally begin their program of study with the Science of Creative Intelligence course (FOR 500).

Special Maharishi Vedic Science Studies Program

The Special *Maharishi Vedic Science* Studies program is offered by Maharishi University of Management in conjunction with the Maharishi Vedic Education Development Corporation (MVED) through reciprocal credit arrangements. Courses offered include “*Transcendental Meditation-Sidhi* Course” and “*Transcendental Meditation* Program Teacher Training, Parts I and II.” Degree-seeking students enroll in these courses under the guidance of their academic advisor. Non-degree students wishing to enroll in a Special *Maharishi Vedic Science* Studies course must submit a completed “Special *Maharishi Vedic Science* Studies Program Application/Registration” form and a nonrefundable \$50 application and registration fee to the Registrar's Office. Upon receiving verification of satisfactory completion of course work the University will enter credit on the student's permanent record.

For further details about this program, please refer to “Special *Maharishi Vedic Science* Studies Program” under the “Department of Maharishi Vedic Science.”

ADDITIONAL INFORMATION FOR ALL APPLICANTS

Policies for Practice of the *Transcendental Meditation* and *TM-Sidhi* Programs

The Transcendental Meditation program is practiced by all University faculty and staff, as well as by all students as part of their required Development of Consciousness course. Many students, faculty, and staff have learned the advanced Transcendental Meditation-Sidhi program and practice this program as part of their Development of Consciousness program. For the personal benefit of all students, faculty, and staff these technologies are practiced exclusively of other programs or procedures. There are specific policies that support the practice of the Transcendental Meditation and TM-Sidhi programs. Each element of these technologies for the development of consciousness has been carefully structured to produce maximum benefit.

In order to ensure for everyone the integrity and effectiveness of the teaching and practice of the technologies of Maharishi Vedic Science, these technologies are practiced according to the instructions of qualified teachers recognized by Maharishi University of Management, and they are practiced exclusive of other programs and procedures.

Drug, Alcohol, and Smoke-Free Environment

Education at Maharishi University of Management is designed to help students become more creative, alert, and awake and to develop optimum health. Therefore the following points clearly outline the University’s policies on the use of tobacco, non-prescribed drugs, and alcohol:

- Tobacco products, non-prescribed drugs, and alcohol are not allowed on campus.
- Students are not allowed to be in the presence of others using non-prescribed drugs or alcohol on campus.
- The use of non-prescribed drugs is not allowed on *or* off campus.
- The use of alcohol off campus is illegal for students under the age of 21 and strongly discouraged for all students.

Official Acceptance Required before Arriving on Campus

Maharishi University of Management may defer admission or readmission of a student to any program if such deferral is warranted on the basis of the application or other information. It is very important that students do not come before receiving official

acceptance. International students must also have received their U.S. Immigration and Naturalization Service I-20 form from the Office of Admissions before coming to the University.

Childcare Policy for Students with Children

The daily academic program at the University — as at any university — is a full schedule, requiring parents to arrange child care during the day. To ensure the comfort of both parents and children, the University has developed certain childcare policies, as follows:

- It is the responsibility of student parents to provide full-time child care if their children do not attend school. Parents must either provide a nanny or provide other full-time care of the children.
- Student parents must submit a written agreement to the Office of Admissions stating that they will provide adequate child care during their stay at the University, indicating the means by which they plan to do so. This written agreement is a requirement for acceptance.

RE ADMISSION

Students who have been away from the University for one semester or longer, have officially withdrawn from the University, or who have been suspended for three or more blocks must apply for readmission by completing an “Application for Readmission” form with the Office of Admissions. Readmission is not automatic; applicants are subject to admissions review. Applications should be submitted as early as possible.

FINANCIAL AID

The Office of Financial Aid is dedicated to providing all students with as much assistance as possible to help them meet their educational expenses. All students are encouraged to apply for financial aid. In the 2011–2012 academic year, 90% of all full-time students received some form of financial aid. Most financial aid is awarded on the basis of financial need. Need is not considered when determining students' qualification for admission. If students qualify for admission, Maharishi University of Management makes every effort to provide them with a financial aid package generous enough to enable them to attend the University.

For need-based financial assistance, the Free Application for Federal Student Aid is used for USA students to determine students' financial need. For International students, the University uses its own financial aid application to determine financial need.

Maharishi University of Management offers a package of federal, state, and University financial assistance for U.S. citizens, and University scholarship for international students. For example, U.S. undergraduate students may be eligible for federal and state grants, as well as University scholarships, and Federal student loans. U.S. graduate students and international students may qualify for some University scholarships covering part of the tuition.

Many U.S. students also qualify for Federal Work Study positions to help with the cost of books and supplies. Federal Work Study allows students to work at a part-time job at the University, usually after classes or on weekends. The average work-study job is 4 hours a week.

Information on how to apply for student financial aid and further details about available funds are available at the University's website, www.mum.edu. The application procedure is simple, and the Financial Aid staff is pleased to help in any way.

CURRENT FINANCIAL AID PROGRAMS

Federal and State Grants

- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant
- Iowa Tuition Grant
- Iowa Grant

University Scholarships

- Trustees' Scholarship
- Graduate Internships
- National Merit Finalist Awards
- Shelley Hoffman Scholarship
- Ray Prat Music Scholarship
- DeRoy C. Thomas Scholarship

Loans

- Federal Perkins Loan
- Federal Subsidized/Unsubsidized Loan
- Federal PLUS Loan

Other Forms of Aid

- Veterans' Benefits
- Iowa National Guard Educational Benefits
- Work Study

If you have any questions about financial aid, please write or call the Office of Admissions (641) 472-1110 or the Office of Financial Aid, Telephone: (641) 472-1156, Fax: (641) 472-1133, e-mail: finaid@mum.edu.

UNIVERSITY CHARGES PER SEMESTER, 2012-13

Tuition charges per semester for normal standard programs

For normal calendar semesters from Aug 22, 2011 to May 24, 2012

Standard Program Full Time (12 or more credits)	\$13,000
Standard Program $\frac{3}{4}$ Time (11 credits)	\$ 9,750
Standard Program $\frac{1}{2}$ Time (6 to 10 credits)	\$ 6,500
Standard Program $\frac{1}{4}$ Time (2 to 5 credits)	\$ 3,250

Students are encouraged to attend all blocks each semester. Standard programs have courses at the rate of one semester credit hour per week, as well as Development of Consciousness (DC) credits. The DC credits, as well as MVS100, are not used to calculate charges or enrollment status. PhD candidates pay 50% tuition; PhD researchers pay 25% of tuition. PhD researchers are always full time.

Housing and meal charges per semester

For normal 18-week semester as displayed on academic calendar

	Full	Single	MSV
	Meals	Room	Housing
Twelve or more weeks in a semester	\$2,000	\$1,700	\$750 additional
Six to eleven weeks in a semester	\$1,000	\$ 850	\$300 additional
Two to five weeks in a semester	\$ 500	\$ 425	\$150 additional

Housing charges must be accompanied by full meal charges. Meal charges are not available to students without housing charges (although students may buy discounted meal passes at the bookstore). Courses taken during winter and summer break cost extra (see below). All students who live on campus are required to pay for full meals, which consists of three meals per day, six days per week, and two meals on Sunday. Single undergraduate students under 22 years of age are required to live in residence halls. Students with exceptional circumstances, such as living with parents in Fairfield, may petition Student Life for an exemption.

Students moving off campus during a semester

Students who move out of the residence halls after they have registered will not be eligible for a reduction in housing charges for that semester, except when charges must be reduced due to University Withdrawal (see below).

Charges for summer and winter break enrollment

For any week which falls outside the normal 18 week semesters displayed on the academic calendar

Tuition	\$ 350 per credit
Housing and Meals	\$ 700 per month or \$ 200 per week
Courses taken during winter or summer break are intersession credits added onto fall semester if between January 1 and June 30; added onto spring semester if between July 1 and December 31. Intersession credits count toward the enrollment status of that semester. For 2012 summer, undergraduates will have tuition waived for a maximum of six internship credits or a one-month course, if the spring semester enrollment is full time, but undergraduates must pay for housing and meals if on campus. Summer and winter break charges are waived for graduate students during enrollment.	

Tuition charges per semester for nonstandard programs

Master's in Business Administration	\$3,600
Master's in Maharishi Vedic Science	\$2,000
Per credit charge when there are less than 10 Nonstandard credits in a semester	\$ 400

Nonstandard Programs are evening/weekend and one course at a time distance-education schedules. Full-time definition is six credits for graduate Nonstandard Programs, not including DC credits.

Charges for professionals programs

Computer Professionals Program see web posting

Accounting Professionals Program see web posting

Charges are per program, not per semester. Six credits per semester are required for full-time status.

Other charges

- **Student Fees:** A Student Activities fee of \$60, a Student Athletic Facilities fee of \$40, and a technology fee of \$115 are charged per semester. Fees are not prorated for partial enrollment. Fees are not charged when enrollment is less than seven weeks in a semester, or if the entire semester is taken outside of Jefferson County.
- **Application Fees:** All US Citizens and Green Card holders are asked to submit, along with the online admissions application, a nonrefundable application-processing fee of \$25. International applicants are asked to submit a nonrefundable application-processing fee of \$50. Payment may be made by credit card or a bank draft.
- **Tuition Deposit:** A nonrefundable deposit of \$100 is required for prospective students at the time of confirmation of enrollment at Maharishi University of Management. This deposit may be applied to a student's Security Deposit at registration.
- **Security Deposit:** Each student in attendance pays a security deposit of \$100 at the first registration, which is transferred from one semester to the next and is used to cover any damages or unpaid fines. This deposit is refunded at the end of enrollment less any unpaid charges if, for on-campus students, the Housing Departure Form is submitted within 72 hours of the last day of class.
- **International Students Health Insurance:** International students are charged an estimated \$654 per semester for six months of required health insurance unless otherwise insured (proof of other insurance required within two weeks of initial semester registration). Health insurance is not prorated for partial enrollment, except for three-month increments (approximately \$327) as long as no claims have been incurred. Insurance amounts listed on the Financial Aid Award Letter are estimated until the rates are finalized with the insurance provider.
- **Transcendental Meditation Program Tuition:** Undergraduate students and US Graduate students will receive a scholarship from the David Lynch Foundation covering the tuition of the University's Transcendental Meditation course. International graduate students will receive a loan for the \$625 Transcendental Meditation course tuition. Prospective students who receive instruction in the

Transcendental Meditation technique before enrollment, as part of their admissions process, may be eligible for a reimbursement of the cost of the instruction after they enroll at the University, from the David Lynch Foundation, through Admissions.

- **TM-Sidhi Course:** Students may receive four academic credits from Maharishi University of Management for the TM-Sidhi course taught by Maharishi Foundation in coordination with MUM through a contractual agreement. The David Lynch Foundation has announced a scholarship to reduce the cost of the course from \$2,500 to \$1,250 for Maharishi University of Management students. An additional scholarship of \$750, reducing the tuition to \$500, is also available to students who meet specific criteria specified by Maharishi Foundation. There is an additional cost of \$950 for the final two weeks in residence.

Cost of books, supplies, and equipment

For most programs, the costs for books, supplies, and equipment are estimated to be \$1,200 per academic year with certain exceptions. Some of these are:

Art and Communications Majors	\$1,600 per academic year
Nonstandard Programs	\$300–\$400 per academic year

Payment plan

Students may pay their charges for the semester in one of two ways:

1. Full payment on or before registration (fall: August; spring: January)
2. Payments may be made in four (4) equal installments per semester with a \$10 service charge per installment. The first installment is due at registration with the three additional installments due on the first day of each successive month (fall: Oct. 1, Nov. 1, Dec. 1; spring: Mar. 1, Apr. 1, May 1). There is a fee of \$50 for late payment of installments. Students are responsible for payment by due date whether or not a reminder notice is received.

Payment procedure

VISA and MasterCard payments may be made at www.mum.edu/payments. Checks are payable to *Maharishi University of Management*. Only checks drawn on U.S. banks using U.S. currency will be accepted. Please do not send cash. Wire transfers to a student's account can also be arranged; the University Student Accounts Office at (641) 472-7000, ext. 1341 can provide details. When making payments, the following information must be included: the name and student I.D. number¹ of the student for whom the payment is made. Payments should be mailed to Student Accounts Office, Maharishi University of Management, Fairfield, IA 52557.

¹ New students please ask your Admissions Representative for your Student I.D. number. If you are a continuing student, please look on your student badge.

Reduction in charges for reduced enrollment

For students who change their enrollment by dropping future courses, before the course starts, charges are reduced (according to the itemizations above). When charges are reduced, financial aid is also reduced.

- *Standard Program* example: Full Time (12 or more credits); Half Time (6 to 10 credits); $\frac{1}{4}$ Time (2 to 5 credits). Examples: Full Time Tuition, Housing, Meals, Fees \$18,915 (more than 11 credits per semester). Half Time Tuition, Housing, Meals, Fees \$8,565 (fewer than 11 credits per semester)
- *Nonstandard Program* charges may be recalculated at \$400 per credit if enrollment is less than 10 credits.
- *Professionals Program* charges may be adjusted in accordance with the program agreement.

Reductions in charges due to semester withdrawal

The semester charges (tuition, fees,* housing, and meals) are reduced or recalculated (financial aid is also reduced) in proportion to the time attended, under these conditions: ***A student ceases to attend a course*** before completing that course, and there is no written confirmation of the student's intent to attend an additional course that semester. Or a student fails to begin attendance in a course for which the student registered where there was no prior notification about changing the semester enrollment.

The last date of attendance is the official withdrawal date. The last date of attendance must be documented by the University from its own records of any academic attendance (a student's statement of last date of attendance is not sufficient). The professor may sign a Course Withdrawal Form specifying the last date of class attendance.

The percentage of time attended is defined as the number of calendar days in that student's semester enrollment (not counting any time of more than five consecutive days during which the student was not scheduled to take any courses) divided by the number of calendar days from the start of the semester to the official date of withdrawal. The semester charges are recalculated to be the percentage of time attended multiplied by the original semester charges. After 60% there is no reduction.

If there is written confirmation of the intent to take additional courses that semester, at the time of withdrawal from a course, there is no reduction in charges. If the student does not return for the additional course, the charges are reduced according to the withdrawal date of the earlier partially attended course. If a student returns and withdraws from the future course, the withdrawal date is the date from that future course.

Reductions in charges due to University withdrawal

University scholarship, University loan, and state grants are reduced or recalculated by using the same percentage attended that was used above, multiplied by the original aid. In addition, federal law requires that the University and the student return federal aid which has been “unearned” in the following order:

1. Direct unsubsidized first, then subsidized
2. Perkins loans next
3. Federal grants last: Pell first, then FSEOG.

The return of federal student aid to the U.S. Government by the University means that in many cases this could result in a payment due by the student to the University.

Example:

\$13,215 Tuition, Fees for one semester, original semester registration, off-campus student
- 14,571 Financial Aid (2,798 Federal Grants, 3,923 Federal Student Loans, 7,850 Institutional Scholarship)
= 1,356 Projected Semester Cash Refund for Living Expenses

This student received \$1,356 of the cash refund after the third week of class attendance and then ceased attending after the fourth week of class attendance. The official withdrawal date is the last date of attendance, the 28th day of the semester where the enrollment period is 118 days, having attended 24% in time. The charges and aid are reduced and recalculated as follows:

\$3,172 Tuition and Fees (24% of original \$13,215 charge)
-1,613 Federal Aid, all Pell Grant, no loans (24% of original federal aid, grants first, then loans)
-1,884 Institutional Scholarship (24% of original \$7,850 scholarship)
\$ 325 New Semester Refund Eligibility

The student already received \$1,356 thus must return \$1,031 cash to the University. The University will not release a transcript until this balance due has been paid.

Other points regarding charges

Students with a remaining balance due to the University should pay it before leaving the University. In case students are requested to withdraw from the University because of poor academic standing or disciplinary reasons, reductions in charges are the same as for other withdrawals from the University. An appeals process for review of specific

situations is available by filing a Financial Review Board petition form, available at the Enrollment Center.

Study abroad and courses taken away from Fairfield

U.S. Students in standard programs eligible for federal aid will be assisted in obtaining federal aid to attend eligible study-abroad programs. Only \$500 of University tuition will be charged when the other institution grants academic credit via approved transcript. University tuition (see above) is charged for any other course taken away from Fairfield, including Internships, Fieldwork, Thesis, Projects, MVS Special Studies, and other studies, even when the source of coursework is not primarily taught by University faculty.

Continuing education / special students

Special students who are not seeking a degree may take up to eight credits a semester, upon application approval, at the rate of \$400 per credit, with housing and meals at the rate of \$200 per week, or \$700 per month (financial aid, including scholarship, will not be available). A student who withdraws after the first day of the course will be charged a minimum 50% of the course fee, and after 25% of the course, there is no refund

Information for recipients of grants

In the event that available state funds are insufficient to pay the full amount of each approved Iowa Tuition Grant, the Iowa College Student Aid Commission has the authority to administratively reduce the award. State awards may include LEAP/GAP funds.

University Scholarship

University Scholarship Review Board reserves the right to increase or decrease University Scholarship at any time, for any reason, for any individual. Such a change in scholarship level (up or down) may be reviewed by petition from the student to Scholarship Review Board (forms are available at the Enrollment Center).

Important notice

In compliance with Iowa Code Annotated Title VII 3 261B, please see www.mum.edu for course titles, descriptions, academic policies, credit earned, and degrees, as well as accreditation information, in combination with the charges and refund policies herein. Maharishi University of Management reserves the right to change, without prior notice, University charges and policies. All information in this document is in accord with federal regulations as of January 31, 2011.

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