

INDIANA**TECH**

College of Professional Studies

# COURSE CATALOG

2012–2013

Programs and policies described here pertain to the College of Professional Studies. For a more complete description of the university's offerings, please consult the main catalog.

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COLLEGE  
OF PROFESSIONAL  
STUDIES

## Our Academic Philosophy

The College of Professional Studies offers professionally oriented degree programs for students who cannot attend college full time in a traditional format. Degree programs in accounting, business, criminal justice, general studies, health care, human services, information systems, organizational leadership, and engineering are targeted toward students who have some workplace experience but seek more education to achieve their career goals.

The course work and academic objectives of degree programs in the College of Professional Studies are the same as programs offered to traditional students in the College of Business, College of General Studies, and the College of Engineering and Computer Sciences. The structure of the programs, however, requires motivated students to complete the work in the time allowed. In the Accelerated Degree Program (explained in more detail on Page 6), an entire semester of material is covered in five or six weeks. Students must be committed to attending each class and reserving time outside of class for study and homework. Online classes give students the flexibility to access course material when and where they want within a five or six week class structure. In the Independent Study Program (explained in more detail on Page 8), students must discipline and pace themselves to complete the required work entirely on their own time.

While these programs are academically challenging, Indiana Tech simplifies many of the administrative details of attending college. For example, registering for classes can be completed by phone or online. In addition, textbooks and other course materials are shipped to students prior to the first class meeting. Almost any process, from making tuition payments to changing a major, can be completed through forms found on the university website. Less time spent shopping for textbooks or filling out paperwork leaves more time for studying and meeting life's challenges.

The College of Professional Studies is dedicated to helping students achieve personal and professional goals. The degree programs focus on knowledge and skills needed for the real world. If you have any questions about the programs, please call 800-288-1766 or explore our website at [www.IndianaTech.edu/CPS](http://www.IndianaTech.edu/CPS).

# The Accelerated Degree Program

The Accelerated Degree Program offers motivated students an alternative to traditional, full-term classes. Weekly classroom sessions supplemented with rigorous homework assignments and projects allow students to progress at an advanced pace.

For undergraduate students, the traditional 15-week semester is condensed to a five-week session. Some quantitative courses are taught in 10-week sessions. Most classes meet once a week although some science courses in the industrial and manufacturing engineering program do require two class meetings per week. There are nine undergraduate sessions each year, allowing a student to start the program at any time.

For graduate students, the traditional semester is condensed to six weeks, with some quantitative courses being 12 weeks. Like undergraduates, the classes meet just once a week. There are eight graduate sessions each year, allowing a student to complete a master's degree in about two years.

Books, materials, and the first assignment for all courses are shipped to the student's home 10 to 14 days prior to class.

Although the College of Professional Studies gives students a great deal of flexibility in scheduling, some degree programs do require that a group of courses be taken in a certain order. This system, referred to as Tracked Educational Adult Modules (TEAM), uses a tracked teaching approach with students organized into TEAM groups of 12 to 18 members. The TEAM proceeds in a predetermined order through the courses that are unique to the degree.

## Distance Education

The Office of Distance Education offers students two options for earning credit without attending formal classes: online courses and Independent Study. Current degrees being offered through distance education are:

### Undergraduate Degrees

- › Associate of Science in Accounting
- › Associate of Science in Business Administration:
  - Management
  - Production Management
- › Associate of Science in Criminal Justice
- › Associate of Science in General Studies
- › Bachelor of Science in Accounting

- › Bachelor of Science in Business Administration:
  - Health Care Administration
  - Human Resources
  - Management
  - Management Information Systems
  - Marketing
- › Bachelor of Science in Criminal Justice:
  - Crime Analysis
  - Criminal Justice Administration
  - Rehabilitative Services
- › Bachelor of Science in Organizational Leadership
- › Bachelor of Science in Psychology

### **Graduate Degrees**

- › Master of Business Administration (MBA):
  - Accounting
  - Health Care Management\*
  - Human Resources
  - Management
  - Marketing
- › Master of Science in Engineering Management (MSE)
- › Master of Science in Management (MSM)
- › Master of Science in Organizational Leadership (MSOL)
- › Ph.D. in Global Leadership:
  - Organizational Management
  - Academic Administration

\*HCM courses are only available online while the other courses can be taken in the classroom

Online courses have specific start and end dates, with most of them spanning 5 weeks for undergraduates and 6 weeks for graduate students. Students have weekly assignments, but can access materials at any time that is convenient for them within the assignment guidelines. Independent Study courses, on the other hand, are entirely self-paced with up to six months to complete the course. Most courses offered through the College of Professional Studies are also offered through the Independent Study Program and are designated with an asterisk next to the course name and course description.

For more information on available courses and policies in the Office of Distance Education, please visit [www.IndianaTech.edu/DistanceEd](http://www.IndianaTech.edu/DistanceEd).

## Academic and Professional Support

Indiana Tech offers a variety of resources for students in need of academic or professional guidance. The accelerated pace of courses in the College of Professional Studies challenges students to maintain focus on the course material. If you feel the need for extra assistance, you can take advantage of free tutoring services offered by the university. Faculty members and upper-level students who have shown success in specific subjects work as tutors for students who need one-on-one help to succeed in a course.

All CPS students also have access to McMillen Library on the Fort Wayne campus. The McMillen Library offers electronic access to an online catalog, full-text databases, and the Internet. Remote access also is available for searching from the Indiana Tech website at [www.IndianaTech.edu/library](http://www.IndianaTech.edu/library). The library houses a 20,000-volume collection and receives more than 150 periodicals. Additional services include reference, library instruction, and intra-library loan services.

Resource materials and computer access also are available in the Academic Resource Centers at other Indiana Tech locations. The books and periodicals available at each center are chosen to supplement material covered in the courses offered through the College of Professional Studies. Computers provided at each center have Internet access and the business software required to complete assignments, as well as tutorials on using the software.

Because your path to success does not end at graduation, Indiana Tech also offers professional guidance through the Career Planning and Development Center. Career center staff can offer advice on a variety of career paths and direct you to tools and resources for exploring various industries and employment opportunities.

# Warrior Information Network

At Indiana Tech, we take pride in our commitment to our students. To serve you better, we have established the Warrior Information Network (WIN) as a centralized source for administrative needs. One call to 888.832.4742 does it all, handling all of your needs from registration through graduation.

Our student services representatives are specially trained to serve student needs, such as:

- › Registration
- › Changes of personal information (address, phone number, e-mail)
- › Account questions (balances, payments, payment schedules)
- › Course withdrawals
- › Curriculum changes
- › Requests for copies of grades

WIN representatives also can provide general information such as:

- › Directions to class locations
- › Information on schedules
- › Weather-related class cancellations

Instead of calling different departments on different campuses, call the WIN with any question or problem you may have. You don't have to search for the right person or wait for a returned phone call. Just enjoy helpful, convenient service.

## **The three ways to contact the WIN are:**

- › E-mail: WIN@indianatech.edu.
- › Telephone: 888.832.4742, from 8:30 a.m. to 6 p.m. Monday through Thursday and 8:30 a.m. to 5 p.m. Friday with the exception of holidays.
- › Fax: 260.424.4831 or toll-free 888.832.4844.

# UNDERGRADUATE PROGRAMS

## Degree Options

Degree programs at Indiana Tech are designed to provide students with the knowledge and skills needed for rewarding careers. The university recognizes that each student is an individual and has unique goals. With that in mind, the College of Professional Studies offers degree options with a variety of concentrations. Each student can choose the degree that fits his or her goals and, in many cases, combine two or more concentrations for a tailor-made education.

Although not all programs are available at all locations, undergraduate degree options in the College of Professional Studies for the 2011–12 academic year are:

- › Associate of Science in Accounting
- › Associate of Science in Business Administration:
  - Management
  - Production Management
- › Associate of Science in Criminal Justice
- › Associate of Science in General Studies
- › Associate of Science in Health Information Technology
- › Associate of Science in Industrial and Manufacturing Engineering
- › Bachelor of Science in Accounting
- › Bachelor of Science in Business Administration:
  - Health Care Administration
  - Human Resources
  - Management
  - Management Information Systems
  - Marketing
- › Bachelor of Science in Criminal Science:
  - Crime Analysis
  - Criminal Justice Administration
  - Rehabilitative Services
- › Bachelor of Science in Human Services
- › Bachelor of Science in Industrial and Manufacturing Engineering
- › Bachelor of Arts in Information Systems
- › Bachelor of Science in Organizational Leadership
- › Bachelor of Science in Psychology

The specific course requirements for each degree are outlined on the following pages.

# Associate of Science in Accounting

An Associate of Science in Accounting prepares students to perform junior level accounting jobs such as bookkeeping, accounts payable, accounts receivable, payroll, and inventory tracking and analysis. Students are also prepared to continue the pursuit of a Bachelor of Science in Accounting. The accounting degree program uses the TEAM approach described on Page 6. Courses marked with an asterisk (\*) require TEAM enrollment.

### Business Administration

BA 1200	Foundations of Business .....	3
BA 2010	Principles of Management .....	3
BA 2850	Managing in a Legal Environment .....	3

### Math

MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving .....	3
MA 2025	Statistical Problem-Solving .....	3

### Accounting & Information Systems

ACC 1010	Accounting Principles.....	3
ACC 2140	Managerial Accounting.....	3
*ACC 2300	Intermediate Accounting I.....	3
*ACC 2320	Intermediate Accounting II.....	3
*ACC 2340	Intermediate Accounting III.....	3
*ACC 2430	Cost Accounting I.....	3
*ACC 2440	Cost Accounting II.....	3
MIS 1300	Software Tools .....	3

### English

ENG 1250	English Composition I .....	3
ENG 1270	English Composition II.....	3
ENG 2320	Professional Communication.....	3

### Humanities & Social Sciences

HUM	Electives .....	3
PSY 1700	Introduction to Psychology .....	3
SS 2200	Macroeconomics.....	3
SS 2210	Microeconomics .....	3

<b>Total Credits.....</b>	<b>63</b>
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# Associate of Science in Business Administration — Management

The Associate of Science in Business Administration with a concentration in management prepares students for positions such as a team leader, supervisor trainee, or a staff person in a variety of business functions such as marketing and sales, human resources, or operations. Students also are prepared to continue the pursuit of a Bachelor of Science in Business Administration.

## Business Administration

BA 1200	Foundations of Business .....	3
BA 2010	Principles of Management .....	3
BA 2020	Operations Management .....	3
BA 2410	Human Resource Management .....	3
BA 2430	International Management .....	3
BA 2500	Marketing .....	3
BA 2850	Managing in a Legal Environment .....	3

## Math

MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving .....	3

## Accounting & Information Systems

ACC 1010	Accounting Principles .....	3
ACC 2140	Managerial Accounting .....	3
MIS 1300	Software Tools .....	3

## English

ENG 1250	English Composition I .....	3
ENG 1270	English Composition II .....	3
ENG 2320	Professional Communication .....	3

## Humanities & Social Sciences

HUM	Electives .....	3
PSY 1700	Introduction to Psychology .....	3
SS 2200	Macroeconomics .....	3
SS 2210	Microeconomics .....	3

**Approved Electives**..... 6

**Total Credits**..... 63

# Associate of Science in Business Administration — Production Management

The Associate of Science in Business Administration with a production management concentration prepares students for production support positions in any manufacturing firm. Students also are prepared to continue in pursuit of a Bachelor of Science in Business Administration.

### Business Administration

BA 1200	Foundations of Business .....	3
BA 2010	Principles of Management .....	3
BA 2020	Operations Management .....	3
BA 2600	Occupational Safety and Health .....	3
BA 2700	Organizational Behavior .....	3
BA 3110	Project Management I .....	3

### Math

MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving .....	3
MA 2025	Statistical Problem-Solving .....	3

### Accounting & Information Systems

ACC 1010	Accounting Principles .....	3
ACC 2140	Managerial Accounting .....	3
MIS 1300	Software Tools .....	3

### English

ENG 1250	English Composition I .....	3
ENG 1270	English Composition II .....	3
ENG 2320	Professional Communication .....	3

### Humanities & Social Sciences

HUM	Electives .....	3
PSY 1700	Introduction to Psychology .....	3
SS 2200	Macroeconomics .....	3
SS 2210	Microeconomics .....	3

### Approved Electives..... 6

### Total Credits..... 63

# Associate of Science in Criminal Justice

An associate degree satisfies the entry-level education requirement at many law enforcement agencies. The program uses the TEAM approach described on Page 6. Courses marked with an asterisk (\*) require TEAM enrollment.

## Criminal Justice

- CJ 1100 Introduction to the Criminal Justice System ..... 3
- \*CJ 1200 Criminology ..... 3
- \*CJ 1300 Police in America ..... 3
- \*CJ 1400 Corrections in America ..... 3
- \*CJ 2000 Homeland Security ..... 3
- \*CJ 2300 Substantive Criminal Law ..... 3
- \*CJ 2400 Understanding Procedural Law ..... 3
- \*CJ 2500 Basics of Criminal Investigation ..... 3
- \*CJ 2600 Laws of Evidence ..... 3
- \*CJ 3100 A System of Juvenile Justice ..... 3
- \*CJ 3200 Understanding Criminal Behavior ..... 3

## Business Administration

- BA 1200 Foundations of Business ..... 3

## Information Systems

- MIS 1300 Software Tools ..... 3

## English

- ENG 1250 English Composition I ..... 3
- ENG 1270 English Composition II ..... 3

## Humanities, Psychology, and Social Sciences

- PSY 1700 Introduction to Psychology ..... 3
- PSY 2520 Abnormal Psychology ..... 3
- SS 2800 Introduction to Sociology ..... 3

## Math

- MA 1000 Foundations of College Math ..... 3
- MA 1025 Mathematical Problem-Solving ..... 3

## Approved Electives ..... 3

## Total Credits ..... 63

# Associate of Science in General Studies

The associate degree in general studies is structured to offer students a broad, general base upon which to build. This curriculum is designed to serve the student who is seeking a two-year degree with a course of study that can be customized to personal or career objectives as well as the student who is undecided in his or her career objectives. Students who plan to continue for a bachelor's degree should consult with their academic advisor regarding the most appropriate choice of electives.

## Math & Information Systems

MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving .....	3
MIS 1300	Software Tools .....	3

## English

ENG 1250	English Composition I .....	3
ENG 1270	English Composition II .....	3
ENG 2320	Professional Communication .....	3

## Humanities & Social Sciences

HUM 2000	Introduction to Humanities .....	3
HUM	Electives (3 credits must be literature) .....	6
PSY 1700	Introduction to Psychology .....	3
SS	Electives .....	6

**Approved Electives..... 27**

**Total Credits..... 63**

# Associate of Science in Health Information Technology

Graduates of the associate degree program may find employment in settings such as hospitals, physician networks and practice groups, third-party payers, regulatory agencies, and industry suppliers such as pharmaceutical companies, biotechnology companies, and vendors of hospital equipment and medical supplies.

## English

ENG 1250	English Composition I .....	3
ENG 1270	English Composition II.....	3
ENG 2320	Professional Communication.....	3

## Health Information Technology

HIT 1100	Medical Terminology .....	3
HIT 1200	Health Information Technology and Systems.....	3
HIT 1300	Medical Coding I.....	3
HIT 1400	Medical Coding II.....	3
HIT 2000	Health Data Management .....	3
HIT 2200	Health Data Privacy & Security .....	3
HIT 2400	Project Management .....	3
HIT 2600	Field Experience.....	3

## Management Information Systems

MIS 1300	Software Tools .....	3
MIS 3100	Database Management .....	3
MIS 3150	Database Applications .....	3

## Health Care Administration

HCA 1100	Introduction to Health Care Administration .....	3
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## Mathematics & Computer Science

MA 1000	Foundations of College Math*.....	3
MA 1025	Mathematical Problem-Solving .....	3
CS 1250	Problem Solving for Programmers .....	3

## Biology

BIO 1110	Anatomy & Physiology .....	3
BIO 1210	Human Disease & Pharmacology .....	3

<b>Total Credits</b> .....	<b>63</b>
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# Associate of Science in Industrial and Manufacturing Engineering

The Associate of Science in Industrial and Manufacturing Engineering prepares students for positions such as industrial engineer, quality engineer, manufacturing engineer, or environmental health and safety engineer. The IME degree program uses the TEAM approach described on Page 6. Courses marked with an asterisk (\*) require TEAM enrollment.

## Business Administration

BA 1200	Foundations of Business .....	3
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## English

ENG 1250	English Composition I .....	3
ENG 1270	English Composition II.....	3

## Humanities and Social Sciences

HUM 2000	Introduction to Humanities.....	3
SS 2200	Macroeconomics.....	3

## Math & Science

*CH 1000	Fundamentals of Chemistry.....	3
*MA 1035	College Algebra.....	3
*MA 1060	Trigonometry.....	3
*MA 1100	Applied Calculus .....	3
*PH 1100	Fundamentals of Physics .....	3

## Engineering

*EGR 1710	Graphics and Design.....	3
*EGR 2000	Engineering Communication .....	3
*EGR 2650	Manufacturing Processes.....	3
*EGR 3430	Applied Probability and Statistics.....	3
*IME 2010	Safety Engineering.....	3
*IME 2020	Work Design.....	3
*IME 2110	Quality Control I.....	3
*IME 3020	Computer Sim. of Mfg. Processes .....	3
*IME 4020	Lean Manufacturing.....	3
*IME 4300	Integrated Resource Management .....	3

<b>Total Credits.....</b>	<b>60</b>
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# Bachelor of Science in Accounting

A Bachelor of Science in Accounting prepares the student to perform senior level accounting jobs that include financial accounting activities, cost accounting, auditing, and tax work. The accounting degree program uses the TEAM approach described on Page 6. Courses marked with an asterisk (\*) require TEAM enrollment.

## Business Administration

BA 1200	Foundations of Business .....	3
BA 2010	Principles of Management .....	3
BA 2200	Personal Finance .....	3
BA 2410	Human Resource Management .....	3
BA 2500	Marketing .....	3
BA 2700	Organizational Behavior .....	3
BA 2850	Managing in a Legal Environment .....	3
BA 3200	Business Ethics.....	3
BA 4910	Business Policy & Strategic Planning .....	3
FIN 3600	Corporate Finance.....	3

## Math

MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving .....	3
MA 2025	Statistical Problem-Solving.....	3

## Accounting & Information Systems

ACC 1010	Accounting Principles.....	3
ACC 2140	Managerial Accounting .....	3
*ACC 2300	Intermediate Accounting I.....	3
*ACC 2320	Intermediate Accounting II.....	3
*ACC 2340	Intermediate Accounting III .....	3
*ACC 2430	Cost Accounting I .....	3
*ACC 2440	Cost Accounting II.....	3
*ACC 2500	Individual Income Tax.....	3
*ACC 3300	Auditing .....	3
*ACC 3500	Corporate Income Tax .....	3
*ACC 4700	Advanced Accounting I.....	3
*ACC 4740	Advanced Accounting II.....	3
MIS 1300	Software Tools.....	3

## English

ENG 1250	English Composition I.....	3
ENG 1270	English Composition II.....	3
ENG 2320	Professional Communication.....	3

**Humanities & Social Sciences**

HUM Electives (3 credits must be literature) ..... 9  
One of the two following courses ..... 3  
    SS 2720 Group Dynamics  
    SS 2800 Introduction to Sociology  
PSY 1700 Introduction to Psychology ..... 3  
    SS 2200 Macroeconomics ..... 3  
    SS 2210 Microeconomics ..... 3

**Science**

One of the two following courses ..... 3  
    BIO 1000 Introductory Biology  
    SCI 2000 Contemporary Issues in Science

**Approved Electives** ..... 12

**Total Credit Hours** ..... 123

# Bachelor of Science in Business Administration — Health Care Administration

The business administration degree with a health care administration concentration is designed to prepare the student to apply business administration concepts and skills to the growing health care arena. The courses address the major management issues facing this rapidly changing field as well as the political and policy forces affecting the delivery of health care in the United States. The health care administration concentration uses the TEAM approach described on Page 6. Courses marked with an asterisk (\*) require TEAM enrollment.

## Business Administration Core

BA 1200	Foundations of Business .....	3
BA 2010	Principles of Management .....	3
BA 2200	Personal Finance .....	3
BA 2410	Human Resource Management .....	3
BA 2500	Marketing .....	3
BA 2700	Organizational Behavior .....	3
BA 2850	Managing in a Legal Environment .....	3
BA 3200	Business Ethics.....	3
BA 4910	Business Policy & Strategic Planning .....	3
FIN 3600	Corporate Finance.....	3

## Math

MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving .....	3
MA 2025	Statistical Problem-Solving.....	3

## Accounting & Information Systems

ACC 1010	Accounting Principles.....	3
ACC 2140	Managerial Accounting.....	3
MIS 1300	Software Tools .....	3

## English

ENG 1250	English Composition I .....	3
ENG 1270	English Composition II.....	3
ENG 2320	Professional Communication.....	3

### Humanities & Social Sciences

HUM	Electives (3 credits must be literature) .....	9
PSY 1700	Introduction to Psychology .....	3
SS 2200	Macroeconomics.....	3
SS 2210	Microeconomics .....	3
One of the two	following courses.....	3
SS 2720	Group Dynamics	
SS 2800	Introduction to Sociology	

### Health Care Administration

HCA 1100	Intro to Health Care Administration.....	3
*HCA 2100	Legal Aspects of Health Care Admin. ....	3
*HCA 3100	Finance of Health Care Admin. ....	3
*HCA 3200	Health Care Policy .....	3
*HCA 4100	Managed Care & Medical Group Practice.....	3
*HCA 4200	Long Term Care Administration.....	3
*HIT 1100	Medical Terminology.....	3

### Science

One of the two	following courses.....	3
BIO 1000	Introductory Biology	
SCI 2000	Contemporary Issues in Science	

**Approved Electives.....21**

**Total Credits.....123**

# Bachelor of Science in Business Administration — Human Resources

The human resources concentration provides practical knowledge of the major areas of human resource management that can be readily applied across industries. The human resource curriculum is augmented with other business courses to give students a well-rounded knowledge of business.

## Business Administration Core

BA 1200	Foundations of Business .....	3
BA 2010	Principles of Management .....	3
BA 2200	Personal Finance .....	3
BA 2410	Human Resource Management .....	3
BA 2500	Marketing .....	3
BA 2700	Organizational Behavior .....	3
BA 2850	Managing in a Legal Environment .....	3
BA 3200	Business Ethics.....	3
BA 4910	Business Policy & Strategic Planning .....	3
FIN 3600	Corporate Finance.....	3

## Human Resources Concentration

BA 2600	Occupational Safety and Health .....	3
BA 3650	Compensation Management .....	3
BA 3800	Labor Relations .....	3
BA 4700	Training and Development.....	3
PSY 2510	Theories of Counseling.....	3

## Math

MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving.....	3
MA 2025	Statistical Problem-Solving.....	3

## Accounting & Information Systems

ACC 1010	Accounting Principles.....	3
ACC 2140	Managerial Accounting .....	3
MIS 1300	Software Tools .....	3

**English**

ENG 1250 English Composition I ..... 3  
ENG 1270 English Composition II..... 3  
ENG 2320 Professional Communication..... 3

**Humanities & Social Sciences**

HUM Electives (3 credits must be literature) ..... 9  
PSY 1700 Introduction to Psychology ..... 3  
SS 2200 Macroeconomics..... 3  
SS 2210 Microeconomics ..... 3  
One of the two following courses..... 3  
SS 2720 Group Dynamics  
SS 2800 Introduction to Sociology

**Science**

One of the two following courses..... 3  
BIO 1000 Introductory Biology  
SCI 2000 Contemporary Issues in Science

**Approved Electives..... 27**

**Total Credits.....123**

# Bachelor of Science in Business Administration — Management

The Bachelor of Science in Business Administration with a management concentration prepares students to succeed as a staff specialist, entry-level manager, or middle manager in most any business environment. This includes positions in a wide variety of business and industrial settings, and such functions as operations, marketing, human resources, and general management.

## Business Administration

BA 1200	Foundations of Business .....	3
BA 2010	Principles of Management .....	3
BA 2200	Personal Finance .....	3
BA 2410	Human Resource Management .....	3
BA 2500	Marketing .....	3
BA 2700	Organizational Behavior .....	3
BA 2850	Managing in a Legal Environment .....	3
BA 3200	Business Ethics.....	3
BA 4910	Business Policy & Strategic Planning .....	3
FIN 3600	Corporate Finance.....	3

## Management Concentration

BA 2020	Operations Management .....	3
BA 2430	International Management .....	3
BA 3110	Project Management I .....	3
BA 4010	Quality Management.....	3
BA 3710	Leadership .....	3

## Math

MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving .....	3
MA 2025	Statistical Problem-Solving.....	3

### Accounting & Information Systems

ACC 1010	Accounting Principles.....	3
ACC 2140	Managerial Accounting.....	3
MIS 1300	Software Tools.....	3

### English

ENG 1250	English Composition I.....	3
ENG 1270	English Composition II.....	3
ENG 2320	Professional Communication.....	3

### Humanities & Social Sciences

HUM	Electives (3 credits must be literature).....	9
One of the two	following courses.....	3
SS 2720	Group Dynamics	
SS 2800	Introduction to Sociology	
PSY 1700	Introduction to Psychology.....	3
SS 2200	Macroeconomics.....	3
SS 2210	Microeconomics.....	3

### Science

One of the two	following courses.....	3
BIO 1000	Introductory Biology	
SCI 2000	Contemporary Issues in Science	

**Approved Electives..... 27**

**Total Credits.....123**

# Bachelor of Science in Business Administration — Management Information Systems

The MIS concentration is a combination of computer and management courses designed to develop a proficiency in the application of information technology to support business processes. Possible career options for MIS graduates include: systems analyst, chief information officer (CIO), chief technology officer (CTO), applications developer, technology manager, and project manager. The MIS concentration uses the TEAM approach described on Page 6. Courses marked with an asterisk (\*) require TEAM enrollment.

### Business Administration

BA 1200	Foundations of Business .....	3
BA 2010	Principles of Management .....	3
BA 2200	Personal Finance .....	3
BA 2410	Human Resource Management .....	3
BA 2500	Marketing .....	3
BA 2700	Organizational Behavior .....	3
BA 2850	Managing in a Legal Environment .....	3
BA 3200	Business Ethics.....	3
BA 4910	Business Policy & Strategic Planning .....	3
FIN 3600	Corporate Finance.....	3

### Math

MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving .....	3
MA 2025	Statistical Problem-Solving.....	3

### Accounting

ACC 1010	Accounting Principles.....	3
ACC 2140	Managerial Accounting.....	3

### MIS

MIS 1300	Software Tools .....	3
*MIS 1500	Computer Systems & Hardware.....	3
*MIS 2100	Networking & Infrastructure.....	3
*MIS 2150	Component Analysis & Design.....	3
*MIS 3000	Programming & Logic.....	3
*MIS 3100	Database Management .....	3

*MIS 3150	Database Application Development.....	3
*MIS 3200	Web Applications & the Internet.....	3
*MIS 4000	Enterprise Resource Planning.....	3
*MIS 4200	Systems Analysis & Design.....	3
*MIS 4400	MIS Project Management.....	3
<b>English</b>		
ENG 1250	English Composition I.....	3
ENG 1270	English Composition II.....	3
ENG 2320	Professional Communication.....	3
<b>Humanities &amp; Social Sciences</b>		
HUM	Electives (3 credits must be literature).....	9
PSY 1700	Introduction to Psychology.....	3
SS 2200	Macroeconomics.....	3
SS 2210	Microeconomics.....	3
One of the two	following courses.....	3
SS 2720	Group Dynamics	
SS 2800	Introduction to Sociology	
<b>Science</b>		
One of the two	following courses.....	3
BIO 1000	Introductory Biology	
SCI 2000	Contemporary Issues in Science	
<b>Approved Electives.....</b>		<b>12</b>
<b>Total Credits.....</b>		<b>123</b>

# Bachelor of Science in Business Administration — Marketing

The marketing concentration is designed to provide the student with a thorough understanding of all the areas that comprise the marketing arena. The graduate will be armed with practical knowledge that can be readily applied in this area of expertise across all industries. The marketing curriculum is augmented with other business courses to help round out the graduate's knowledge of business.

## Business Administration Core

BA 1200	Foundations of Business .....	3
BA 2010	Principles of Management .....	3
BA 2200	Personal Finance .....	3
BA 2410	Human Resource Management .....	3
BA 2500	Marketing .....	3
BA 2700	Organizational Behavior .....	3
BA 2850	Managing in a Legal Environment .....	3
BA 3200	Business Ethics.....	3
BA 4910	Business Policy & Strategic Planning .....	3
FIN 3600	Corporate Finance.....	3

## Marketing Concentration

BA 2550	Personal Selling .....	3
BA 2800	E-Commerce.....	3
BA 3300	Marketing Research.....	3
BA 3500	Advertising.....	3
BA 3550	International Marketing.....	3
BA 4500	Purchasing.....	3

## Math

MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving .....	3
MA 2025	Statistical Problem-Solving.....	3

## Accounting & Information Systems

ACC 1010	Accounting Principles.....	3
ACC 2140	Managerial Accounting.....	3
MIS 1300	Software Tools .....	3

## English

ENG 1250	English Composition I.....	3
ENG 1270	English Composition II.....	3
ENG 2320	Professional Communication.....	3

**Humanities & Social Sciences**

HUM Electives (3 credits must be literature) .....	9
PSY 1700 Introduction to Psychology .....	3
SS 2200 Macroeconomics.....	3
SS 2210 Microeconomics .....	3
One of the two following courses .....	3
SS 2720 Group Dynamics	
SS 2800 Introduction to Sociology	

**Science**

One of the two following courses.....	3
BIO 1000 Introductory Biology	
SCI 2000 Contemporary Issues in Science	

**Approved Electives..... 24**

**Total Credits.....123**

# Bachelor of Science in Criminal Justice

## — Crime Analysis

The bachelor's degree program has a core of criminal justice courses, but allows the student to specialize in crime analysis through a specialty of six additional criminal justice courses. The criminal justice degree uses the TEAM approach described on Page 6.

Courses marked with an asterisk (\*) require TEAM enrollment.

### Criminal Justice

CJ 1100	Intro. to the Criminal Justice System.....	3
*CJ 1200	Criminology .....	3
*CJ 1300	The Police in America .....	3
*CJ 1400	Corrections in America .....	3
*CJ 2000	Homeland Security .....	3
*CJ 2300	Substantive Criminal Law.....	3
*CJ 2400	Understanding Procedural Law.....	3
*CJ 2500	Criminal Investigation.....	3
*CJ 2600	Laws of Evidence.....	3
*CJ 3100	A System of Juvenile Justice .....	3
*CJ 3200	Understanding Criminal Behavior.....	3
*CJ 3300	Victimology .....	3
*CJ 3700	Ethics and Cultural Diversity in CJ.....	3

### Crime Analysis Specialty

CJ 3520	Crime Scene Investigation .....	3
CJ 3620	Forensic Science and Criminalistics.....	3
CJ 4120	Death Investigation .....	3
CJ 4220	Criminal Profiling.....	3
CJ 4320	Fundamentals of Crime Analysis.....	3
	Approved Elective.....	3

### English

ENG 1250	English Composition I .....	3
ENG 1270	English Composition II.....	3
ENG 2320	Professional Communication.....	3

### Business and Information Systems

BA 1200	Foundations of Business .....	3
MIS 1300	Software Tools .....	3

## Math

MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving .....	3
MA 2010	Foundations of Statistics .....	3

## Humanities & Social Sciences

HUM 2000	Introduction to Humanities .....	3
HUM	Electives .....	3
PSY 1700	Introduction to Psychology .....	3
PSY 2520	Abnormal Psychology .....	3
PSY	Electives .....	3
SS 2800	Introduction to Sociology .....	3
SS 2810	Social Problems .....	3

## Physical Science

One of the four following courses

PH 1000	Physical Science .....	4
BIO 1110	Anatomy and Physiology .....	3
CH 1000	Fundamentals of Chemistry .....	3
SCI 2000	Contemporary Issues in Science .....	3

**Approved Electives .....** 18

**Total Credits .....** 123 or 124\*

\* Total depends on choice of physical science course

# Bachelor of Science in Criminal Justice

## — Criminal Justice Administration

The bachelor's degree program has a core of criminal justice courses, but allows the student to specialize in criminal justice administration through a specialty of six additional criminal justice courses. The criminal justice degree uses the TEAM approach described on Page 6. Courses marked with an asterisk (\*) require TEAM enrollment.

### Criminal Justice

CJ 1100	Intro. to the Criminal Justice System.....	3
*CJ 1200	Criminology .....	3
*CJ 1300	The Police in America.....	3
*CJ 1400	Corrections in America.....	3
*CJ 2000	Homeland Security .....	3
*CJ 2300	Substantive Criminal Law.....	3
*CJ 2400	Understanding Procedural Law.....	3
*CJ 2500	Criminal Investigation.....	3
*CJ 2600	Laws of Evidence.....	3
*CJ 3100	A System of Juvenile Justice .....	3
*CJ 3200	Understanding Criminal Behavior.....	3
*CJ 3300	Victimology .....	3
*CJ 3700	Ethics and Cultural Diversity in CJ.....	3

### Criminal Justice Administration Specialty

BA 2010	Principles of Management .....	3
BA 2700	Organizational Behavior .....	3
CJ 3510	Community-Oriented Policing.....	3
CJ 4110	Law Enforcement Planning Process.....	3
CJ 4210	Police Organization & Management.....	3
	Approved Elective.....	3

### English

ENG 1250	English Composition I.....	3
ENG 1270	English Composition II.....	3
ENG 2320	Professional Communication.....	3

### Business and Information Systems

BA 1200	Foundations of Business.....	3
MIS 1300	Software Tools.....	3

**Math**

MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving .....	3
MA 2010	Foundations of Statistics .....	3

**Humanities & Social Sciences**

HUM 2000	Introduction to Humanities .....	3
HUM	Electives .....	3
PSY 1700	Introduction to Psychology .....	3
PSY 2520	Abnormal Psychology .....	3
PSY	Electives .....	3
SS 2800	Introduction to Sociology .....	3
SS 2810	Social Problems .....	3

**Physical Science**

One of the four following courses

PH 1000	Physical Science .....	4
BIO 1110	Anatomy and Physiology .....	3
CH 1000	Fundamentals of Chemistry .....	3
SCI 2000	Contemporary Issues in Science .....	3

**Approved Electives .....** 18

**Total Credits.....**123 or 124\*

\* Total depends on choice of physical science course

# Bachelor of Science in Criminal Justice

## — Rehabilitative Services

The bachelor's degree program has a core of criminal justice courses, but allows the student to specialize in rehabilitative services through a specialty of six additional criminal justice courses. The criminal justice degree uses the TEAM approach described on Page 6. Courses marked with an asterisk (\*) require TEAM enrollment.

### Criminal Justice

CJ 1100	Intro. to the Criminal Justice System.....	3
*CJ 1200	Criminology .....	3
*CJ 1300	The Police in America.....	3
*CJ 1400	Corrections in America.....	3
*CJ 2000	Homeland Security .....	3
*CJ 2300	Substantive Criminal Law.....	3
*CJ 2400	Understanding Procedural Law.....	3
*CJ 2500	Criminal Investigation.....	3
*CJ 2600	Laws of Evidence.....	3
*CJ 3100	A System of Juvenile Justice .....	3
*CJ 3200	Understanding Criminal Behavior.....	3
*CJ 3300	Victimology .....	3
*CJ 3700	Ethics and Cultural Diversity in CJ.....	3

### Rehabilitative Services Specialty

CJ 3530	Restorative Justice.....	3
CJ 4130	Probation & Parole Services & Care .....	3
CJ 4230	Corrections Counseling .....	3
PSY 2510	Theories of Counseling.....	3
PSY 3770	Assessment in Psychology.....	3
PSY	Elective.....	3

### English

ENG 1100	Introduction to College Writing** .....	3
ENG 1250	English Composition I.....	3
ENG 1270	English Composition II.....	3
ENG 2320	Professional Communication.....	3

### Business and Information Systems

BA 1200	Foundations of Business.....	3
MIS 1300	Software Tools.....	3

**Math**

MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving .....	3
MA 2010	Foundations of Statistics .....	3

**Humanities & Social Sciences**

HUM 2000	Introduction to Humanities .....	3
HUM	Electives .....	3
PSY 1700	Introduction to Psychology .....	3
PSY 2520	Abnormal Psychology .....	3
PSY	Electives .....	3
SS 2800	Introduction to Sociology .....	3
SS 2810	Social Problems .....	3

**Physical Science**

One of the four following courses

PH 1000	Physical Science .....	4
BIO 1110	Anatomy and Physiology .....	3
CH 1000	Fundamentals of Chemistry .....	3
SCI 2000	Contemporary Issues in Science .....	3

**Approved Electives .....** 18

**Total Credits .....** 123 or 124\*

\* Total depends on choice of physical science course

# Bachelor of Science in Human Services

Human services is an ideal degree choice for students who are interested in a career helping others. The program provides an orientation to social agency administration with a management background. The human services degree uses the TEAM approach described on Page 6. Courses marked with an asterisk (\*) require TEAM enrollment.

## Business Administration

BA 1200	Foundations of Business .....	3
BA 2010	Principles of Management .....	3
BA 2410	Human Resource Management .....	3
BA 2700	Organizational Behavior .....	3
BA 4700	Training & Development.....	3

## English

ENG 1250	English Composition I.....	3
ENG 1270	English Composition II.....	3
ENG 2320	Professional Communication.....	3
ENG 2400	Grantwriting.....	3

## Math, Science & Information Systems

BIO 1000	Introductory Biology.....	4
MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving.....	3
MIS 1300	Software Tools .....	3

## Humanities & Social Sciences

CJ 3100	A System of Juvenile Justice .....	3
HUM 2000	Introduction to Humanities.....	3
HUM 3710	Ethics .....	3
HUM	Electives (3 credits must be literature) .....	6
PSY 1700	Introduction to Psychology.....	3
PSY 2000	Understanding Diversity.....	3
PSY 2510	Theories of Counseling.....	3
PSY 2520	Abnormal Psychology.....	3
PSY 3730	Aging.....	3
PSY 3750	Interview Strategies for Helpers .....	3
PSY	Elective .....	3
SS 2200	Macroeconomics.....	3
SS 2720	Group Dynamics.....	3
SS 2800	Introduction to Sociology.....	3

## Human Services

HS 1200	Introduction to Human Services .....	3
HS 2600	Field Experience .....	3
*HS 1500	Helping Relationships .....	3
*HS 2000	Human Services Programming.....	3
*PSY 1750	Human Growth and Development.....	3
*PSY 3770	Assessment in Psychology.....	3
*PSY 3780	Research Methods & Statistics.....	3
*SS 2810	Social Problems .....	3
*SS 2900	Community and Social Movements.....	3
HS 4950	Internship .....	3
<b>Electives</b>		
PSY, SS, CJ, SPA .....		6
<b>Approved Electives.....</b>		<b>3</b>
<b>Total Credits.....</b>		<b>124</b>

# Bachelor of Science in Industrial and Manufacturing Engineering (IME)

The IME education opens up three paths after graduation: industry, graduate school in engineering, and/or graduate school in business. The bachelor's degree prepares you for positions such as industrial engineer, quality engineer, manufacturing engineer, or environmental health and safety engineer. The industrial and manufacturing degree uses the TEAM approach described on Page 6. Courses marked with an asterisk (\*) require TEAM enrollment.

## Business Administration

BA 1200	Foundations of Business .....	3
BA 2010	Principles of Management .....	3
OL 3400	Financial Systems for Decision-Making.....	3

## English

ENG 1250	English Composition I .....	3
ENG 1270	English Composition II.....	3

## Humanities and Social Sciences

HUM 2000	Introduction to Humanities .....	3
SS 2200	Macroeconomics.....	3
HUM	Electives (3 credits must be literature) .....	6
PSY 1700	Introduction to Psychology .....	3
One of the two following courses.....		3
SS 2720	Group Dynamics	
SS 2800	Introduction to Sociology	

## Math & Science

*CH 1000	Fundamentals of Chemistry.....	3
*CS 1250	Problem Solving for Programmers .....	3
*MA 1035	College Algebra.....	3
*MA 1060	Trigonometry.....	3
*MA 1100	Applied Calculus .....	3
*PH 1100	Fundamentals of Physics .....	3
*PH 2100	Fundamentals of Physics II.....	3

## Engineering

*EGR 1710	Graphics and Design.....	3
*EGR 2000	Engineering Communication .....	3
*EGR 2600	Materials Science.....	3
*EGR 2650	Manufacturing Processes.....	3
*EGR 3430	Applied Probability and Statistics .....	3
*EGR 3600	CAD I – Parametric Modeling.....	3
*EGR 4400	Professional Practice I.....	3
*EM 2030	Statics and Dynamics.....	3
*IME 2010	Safety Engineering.....	3
*IME 2020	Work Design.....	3
*IME 2110	Quality Control I.....	3
*IME 3020	Computer Sim. of Mfg. Processes .....	3
*IME 3040	Computer Integrated Manufacturing.....	4
*IME 3060	Adv. Computer Integrated Manufacturing.....	3
*IME 3110	Quality Control II.....	3
*IME 3120	Design of Experiments.....	3
*IME 4020	Lean Manufacturing.....	3
*IME 4110	Total Quality Management .....	3
*IME 4300	Integrated Resource Management .....	3
*IME 4950	IME Internship or Elective (Approved) .....	3
*IME 4975	IME Senior Project .....	4

**Total Credits.....122**

# Bachelor of Arts in Information Systems

The information systems degree program includes the application, implementation, and management of information systems. Both existing and emerging technologies are emphasized in this program. Depending upon the student's choice of elective courses, the graduate may be employed in information technology support, information marketing, web development, information security, financial management, technology related sales, or any other information systems business area. The information systems degree uses the TEAM approach described on Page 6. Courses marked with an asterisk (\*) require TEAM enrollment.

## Business Administration

BA 1200	Foundations of Business .....	3
BA 2010	Principles of Management .....	3
BA 2500	Marketing .....	3
BA 2800	E-Commerce.....	3
OL 3400	Financial Systems for Decision-Making.....	3

## Math & Science

MA 1035	College Algebra.....	3
MA 2025	Statistical Problem-Solving.....	3
SCI 2000	Contemporary Issues in Science.....	3

## Information Systems

*CS 1250	Problem-Solving for Programmers.....	3
*CS 2500	Database Systems .....	3
*IS 1300	Programming I .....	3
*IS 2100	Internet Programming.....	3
*IS 2200	Developing Business Solutions .....	3
*IS 2300	Programming II.....	3
*IS 2900	Web Applications.....	3
*IS 3100	Information Security.....	3
*IS 4100	Systems Analysis and Design.....	3
*IS 4600	Disaster Recovery .....	3
*IS 4800	Technical Project Management .....	3
MIS 1300	Software Tools .....	3
*NET 1100	Introduction to Networking .....	3

**English**

ENG 1250	English Composition I.....	3
ENG 1270	English Composition II.....	3
ENG 2320	Professional Communication.....	3

**Humanities & Social Sciences**

HUM 2000	Introduction to Humanities.....	3
HUM 3710	Ethics.....	3
HUM	Electives (3 credits must be literature).....	6
PSY 1700	Introduction to Psychology.....	3
SS 2200	Macroeconomics.....	3
SS 2210	Microeconomics.....	3
SS 2800	Introduction to Sociology.....	3

**Approved Electives ..... 24**

**Total Credits..... 120**

# Bachelor of Science in Organizational Leadership

The organizational leadership program provides students with the leadership competencies needed for middle management success in a variety of job families and functions. To fully develop the leadership skills of students, the program focuses on four key competency areas: operations and administrative competencies; human relations and interpersonal competencies; decision-making and critical thinking competencies; and communication competencies. The organizational leadership degree uses the TEAM approach described on Page 6. Courses marked with an asterisk (\*) require TEAM enrollment.

## Operations & Administrative Competencies

BA 1200	Foundations of Business .....	3
BA 2010	Principles of Management .....	3
BA 2200	Personal Finance .....	3
BA 2410	Human Resource Management .....	3
BA 2500	Marketing .....	3
BA 2850	Managing in a Legal Environment .....	3
MIS 1300	Software Tools .....	3

## Human Relations & Interpersonal Competencies

BA 2700	Organizational Behavior .....	3
BA 3710	Leadership .....	3
*OL 3000	Employee Development .....	3
PSY 2000	Understanding Diversity .....	3
SS 2850	Conflict Resolution .....	3

## Decision-Making & Critical Thinking Competencies

BA 3200	Business Ethics .....	3
*OL 3200	Managing Organizational Change & Continuous Improvement .....	3
*OL 3300	Quantitative Decision Making .....	3
*OL 3400	Financial Systems for Decision-Making .....	3
*OL 4000	Strategic Planning .....	3
*OL 4100	Qualitative Decision Making .....	3
*OL 4900	Organizational Leadership Capstone .....	3

**Communication Competencies**

ENG 1250 English Composition I ..... 3  
ENG 1270 English Composition II ..... 3  
ENG 2320 Professional Communication..... 3

**Humanities & Social Sciences**

HUM Electives (3 credits must be literature) ..... 9  
PSY 1700 Introduction to Psychology..... 3  
SS 2800 Introduction to Sociology..... 3  
SS or PSY Electives ..... 3

**Math & Sciences**

MA 1000 Foundations of College Math ..... 3  
MA 2010 Foundations of Statistics ..... 3  
One of the two following courses ..... 3  
    BIO 1000 Introductory Biology  
    SCI 2000 Contemporary Issues in Science

**Approved Electives..... 27**

**Total Credits..... 120**

\*Students must complete at least 45 credit hours, including ENG 1250 and BA 2700, before enrolling in the organizational leadership TEAM.

# Bachelor of Science in Psychology

The curriculum also includes course requirements appropriate for students interested in further graduate study and research. Graduates holding this degree may choose a career in many fields including human services, human resource development, sales, law enforcement, market research, child care, counseling, and residential care for elderly or developmentally impaired persons.

## Business Administration

BA 1200	Introduction to Business .....	3
BA 2010	Principles of Management .....	3
BA 2700	Organizational Behavior .....	3

## English

ENG 1100	Introduction to College Writing** .....	3
ENG 1250	English Composition I .....	3
ENG 1270	English Composition II.....	3
ENG 2320	Professional Communications .....	3

## Math, Science & Information Systems

BIO 1110	Anatomy & Physiology .....	3
MA 1000	Foundations of College Math .....	3
MA 1025	Mathematical Problem-Solving.....	3
MA 2025	Statistical Problem-Solving.....	3
MIS 1300	Software Tools .....	3

## Humanities & Social Sciences

CJ 1100	Introduction to the CJ System.....	3
HUM 2000	Introduction to Humanities .....	3
HUM 3710	Ethics .....	3
HUM	Literature Elective.....	3
SS 2720	Group Dynamics.....	3
SS 2800	Introduction to Sociology.....	3
SS 2810	Social Problems .....	3
SS	Elective .....	3

**Psychology**

PSY 1700	Introduction to Psychology.....	3
PSY 1750	Human Growth and Development.....	3
PSY 2000	Understanding Diversity.....	3
PSY 2510	Theories of Counseling.....	3
PSY 2520	Abnormal Psychology.....	3
PSY 2760	Theories of Personality .....	3
PSY 2780	Social Psychology .....	3
PSY 3510	Bio-Psychology.....	3
PSY 3520	Applied Psychology.....	3
PSY 3770	Assessment in Psychology.....	3
PSY 3730	Aging.....	3
PSY 3750	Interview Strategies for Helpers .....	3
PSY 3780	Research & Statistics in Psychology.....	3
PSY 4200	Senior Seminar in Psychology.....	3
PSY 4510	Learning & Cognition.....	3
PSY 4520	Advanced Abnormal Psychology.....	3

**Approved Electives.....15**

**Total Credits..... 120**

# Academic Information

## Admissions Requirements

The Accelerated Degree Program is designed to serve the working adult student. The assumption of the university is that by working for a period of time prior to the pursuit of a college degree, the student will have attained considerable knowledge, maturity, and discipline not found in younger students. These characteristics are deemed essential for successful completion of the degree program and therefore are incorporated into the admissions requirements for the Accelerated Degree Program. Distance education programs, both online and Independent Study, have no age restrictions for admissions.

Admission to the College of Professional Studies requires the following:

- › Students must be 23 or older with three years of work experience. (Applies only for the Accelerated Degree Program. There is no minimum age requirement for distance education programs.)
- › Completion of the Application for Admission along with the application fee
- › An official copy of the student's high school transcript or GED Certificate (A high school transcript is not required if the student has earned an associate degree.)

## Credit for Learning Program

The College of Professional Studies recognizes that students experience learning outside of formal education. ENG 2220 Credit for Learning guides students through the process of compiling a portfolio to show their learning that corresponds to a course offered at Indiana Tech. A faculty member will determine whether the student has demonstrated sufficient knowledge to be awarded credit. Students may complete a maximum of 36 credit hours through the Credit for Learning Program.

## Standardized Tests

The College-Level Examination Program (CLEP) and the DSST (formerly DANTES) program allow you to demonstrate your knowledge by taking an exam. You can earn credit for what you've learned through self-study, advanced high school courses, non-credit adult courses, or professional development. For more information, contact the campus nearest you.

## Transfer Credit

Transfer credit from accredited colleges or universities will be considered for curriculum-related course work with grades of C or better. An official transcript is required. You also may be required to submit college catalogs, course descriptions, or course syllabi to aid in the university's decision on whether to grant credit.

No more than 30 credit hours can be transferred from non-regionally accredited schools for an associate degree candidate. No more than 60 credit hours can be transferred from non-regionally accredited schools for a bachelor's degree candidate.

If you wish to have previous university-level course work from international studies evaluated for transfer credit, you must have a course-by-course evaluation report completed by one of the following:

› **Global Credential Evaluators, Inc.**

P.O. Box 36  
28 Westhampton Way  
Richmond, VA 23173  
(804 ) 639-3660  
[www.gcevaluators.com](http://www.gcevaluators.com)

› **World Education Services, Inc.**

P.O. Box 745  
Old Chelsea Station  
New York, NY 10113-0745  
(212) 966-6311  
[www.wes.org](http://www.wes.org)

› **American Association of Collegiate Registrars  
and Admissions Officers (AACRAO)**

International Education Services  
One Dupont Circle, NW, Suite 520  
Washington, D.C. 20036-1135  
(202) 296-3359  
[www.aacrao.org/credential/index.htm](http://www.aacrao.org/credential/index.htm)

## Graduation Requirements

To qualify for graduation from Indiana Tech, students must successfully:

- › Complete all necessary credit hours required for the degree. Bachelor's degrees require a minimum of 30 hours earned at Indiana Tech. At least 21 of the 30 hours must be among the last credits completed by the student before graduation. Associate degrees require 15 hours earned at Indiana Tech, with at least 9 of the 15 being among the last credits completed before graduation. Individual exceptions to the policy can be made only with written approval by the vice president of academic affairs.
- › Complete required courses in all areas of major study with a minimum cumulative grade point average of 2.0
- › Complete all courses, required and elected, at an overall minimum cumulative grade point average of 2.0
- › Satisfy all financial obligations to the university

# UNDERGRADUATE COURSE DESCRIPTIONS

*The courses described below are listed in numerical order by discipline. All courses are 3 credits unless otherwise noted. Courses marked with an asterisk are available through Independent Study.*

## ACCOUNTING

### **\*ACC 1010 Accounting Principles**

*Prerequisite: MA 1000 with grade C or better.*

An introduction to the principles of accounting. The complete accounting cycle is studied for a sole proprietorship. Specifically included are preparation of journal entries, worksheets, financial statements, and a more detailed look at cash, receivables, and fixed assets. 3 credits. (3 plus 0)

### **\*ACC 2140 Managerial Accounting**

*Prerequisites: ACC 1010 with grade C or better.*

Accounting as a decision-making tool with an emphasis on manufacturing enterprises. Decision-making in management is studied along with management reports and financial statement analysis. Specifically included are production costs, breakeven analysis, budgeting, variances, and differential analysis. 3 credits. (3 plus 0)

### **ACC 2300 Intermediate Accounting I**

*Prerequisites: ACC 2140; MA 1025 with grade C or better; MIS 1300. CPS students only.*

A detailed study of financial reporting concepts focusing on financial statements and related disclosures. Asset valuation and income measurement are studied extensively, concentrating on cash, receivables, inventories; property, plant and equipment; depreciation, depletion and intangibles. Additional topics include a review of accounting systems and financial statement reporting requirements. 3 credits. (3 plus 0)

### **ACC 2320 Intermediate Accounting II**

*Prerequisite: ACC 2300 with grade C or better. CPS students only.*

A continuation of Intermediate Accounting I. The course is a detailed study of financial reporting concepts focusing on the valuation of liabilities and investments. The reporting of stockholders' equity is also studied, including such topics as contributed capital, earnings per share calculation, and retained earnings. 3 credits. (3 plus 0)

### **ACC 2340 Intermediate Accounting III**

*Prerequisite: ACC 2320 with grade C or better. CPS students only.*

A continuation of Intermediate Accounting I and II. The course covers a variety of special topics including: income measurement, measurement of net assets, accounting for income taxes, post-employment benefits, leases, and Statement of Cash Flow. 3 credits. (3 plus 0)

### **ACC 2430 Cost Accounting I**

*Prerequisites: ACC 2140 with grade C or better. CPS students only.*

An introduction to cost management systems. Topics include job order, process, and

activity based cost accounting. Cost allocation for joint products and by-products is also covered. 3 credits. (3 plus 0)

### **ACC 2440 Cost Accounting II**

*Prerequisite:* ACC 2430 with C or better. CPS students only.

A continuation of Cost Accounting I. Topics include standard costing and variance analysis, relevance costing for out-sourcing decisions, responsibility accounting, and capital budgeting. 3 credits. (3 plus 0)

### **ACC 2500 Individual Income Tax**

*Prerequisites:* ACC 2140 with grade C or better; junior standing.

A study of the concepts of individual taxation and extensive practice in filling out individual Form 1040 and back-up forms. Also included is an introductory study of Partnership Taxation and the filling out of Partnership Form 1065. The concept of tax planning is stressed in every area. 3 credits. (3 plus 0)

### **ACC 2990 Special Topics in Accounting**

*Prerequisite:* Permission of the dean of the College of Business.

Directed study of a special body of subject matter in the field of accounting. This course may be repeated for additional credit. Variable credit.

### **ACC 3300 Auditing**

*Prerequisite:* ACC 2240 or ACC 2340 with C or better.

A theory course in auditing which considers the necessary procedures in an audit, purposes for which audits are made, internal control standards, generally accepted auditing standards, fraud and its detection, independence of the CPA, and presentation of the audit report by the CPA. 3 credits. (3 plus 0)

### **ACC 3500 Corporate Income Tax**

*Prerequisite:* ACC 2500 with C or better.

A study of the concepts of corporation income taxes. Dividend distribution as controlled by earnings and profits is stressed. A detailed study of tax-option (Sub Chapter S Corporations, LLCs and LLPs) is included. 3 credits. (3 plus 0)

### **ACC 4700 Advanced Accounting I**

*Prerequisite:* ACC 2240 or ACC 2340 with grade C or better.

A study of selected accounting subjects and theory at the advanced level. Topics include business combinations and consolidations, EPS, multinational accounting, and partnership accounting. 3 credits. (3 plus 0)

### **ACC 4740 Advanced Accounting II**

*Prerequisite:* ACC 4700 with grade C or better.

The capstone accounting course integrating intermediate, advanced, and taxation topics

into a comprehensive learning experience via case analysis. Governmental, not-for-profit, and fiduciary accounting will also be introduced. 3 credits. (3 plus 0)

### **ACC 4990 Special Topics in Accounting**

*Prerequisite: Permission of the dean of the College of Business.*

Directed study of a special body of subject matter in the field of accounting. This course may be repeated for additional credit. Variable credit.

## **BIOLOGY**

### **BIO 1000 Introductory Biology**

A course focused on the basic ideas to enable students to appreciate the living world and their relationship to it. Course includes discussion of cellular and organism biology, genetics, evolution, ecology, and interaction among all living organisms. Lab required. 3 credits. (2 plus 1)

### **BIO 1110 Anatomy & Physiology**

Introduction to concepts and processes in human anatomy and physiology. This course will focus on the structure and function of various cells, tissues, and organs of the human body. Special emphasis will be given to the skeletal, muscular, circulatory and respiratory systems. 3 credits. (3 plus 0)

## **BUSINESS ADMINISTRATION**

### **\*BA 1200 Foundations of Business**

This course provides an introduction to the core disciplines of the business program. Students will explore the internal business functions of marketing, management, human resource management, accounting, finance, and operations management. It is the first course in the business administration program. 3 credits. (3 plus 0)

### **\*BA 2010 Principles of Management**

*Prerequisites: BA 1200, ENG 1250 or concurrent enrollment.*

The student is introduced to the concepts of management theory and practice in this course. A how-to approach for the student of such management functions as planning, organizing, directing, and controlling is presented. 3 credits. (3 plus 0)

### **\*BA 2020 Operations Management**

*Prerequisites: BA 2010; MA 1025.*

Design of production systems. Topics include product and service design, location planning, capacity planning, design of facilities and work systems and lean manufacturing concepts. 3 credits. (3 plus 0)

### **BA 2200 Personal Finance**

*Prerequisites: MA 1000*

A practical understanding of a personal financial plan and the decisions everyone is faced with throughout their lives. Establishing a financial plan, using credit and long-term loans, lease vs. buy decisions for autos and homes, insurance, and investment fundamentals. 3 credits. (3 plus 0)

### **BA 2410 Human Resource Management**

*Prerequisite: BA 2010.*

Principles and policies followed by management in recruitment, development, direction, and control of personnel. Directed study in current legislation, trends and practices in personnel management. The course presents corporations as integrated units whose differences depend upon the people who work in them and the product efficiency of each unit. 3 credits. (3 plus 0)

### **\*BA 2430 International Management**

*Prerequisite: BA 2010.*

The course is an in-depth study of the cultural, economic, political, sociological, and technological differences that exist between various global regions and countries of the world which have an influence on the growth and success of the multinational company. The course covers the planning, organizing, staffing, and managerial control process of the multinational corporation. 3 credits. (3 plus 0)

### **\*BA 2500 Marketing**

*Prerequisites: BA 1200, ENG 1250 or concurrent enrollment.*

A general survey of the field of marketing, including its scope and significance, the market for consumer goods, the market for agricultural and industrial goods, marketing policies and practices, and government regulations in competition. 3 credits. (3 plus 0)

### **\*BA 2550 Personal Selling**

*Prerequisite: BA 2500.*

The history and current status of personal selling, the various types of salesmanship and their requirements, sales personality development, product analysis, psychology of selling, and sales strategy. Emphasis will be placed on practical demonstration. 3 credits. (3 plus 0)

### **\*BA 2600 Occupational Safety & Health**

*Prerequisite: BA 2010.*

The analysis, design, and implementation of safety programs in work settings. Emphasis is placed on developing an understanding of the economic, legal and social factors related to providing a safe and healthful working environment for various occupations. 3 credits. (3 plus 0)

### **\*BA 2700 Organizational Behavior**

*Prerequisite: BA 2010.*

Human behavior in organizational settings. Directed study in business organization, and behavior and motivation in groups. Theoretical and experiential study in productivity tasks, communication, and environmental variables, power, leadership and development. 3 credits. (3 plus 0)

### **\*BA 2800 E-Commerce**

*Prerequisites: BA 2010; BA 2500.*

This course will provide information about the transactions of goods and services using the World Wide Web. Topics will include product marketing, electronic orders and payments, order fulfillment, and customer service. Legal, privacy, and security issues and e-commerce trends also will be examined. 3 credits. (3 plus 0)

### **\*BA 2850 Managing in a Legal Environment**

*Prerequisite: BA 2010.*

This course will present an overview of the legal environment from the perspective of the professional (non-legal) manager. The concentration for this course will be on the main sources of law, the major areas of common law that apply to managers, the major regulatory agencies that influence the management process, and the components of employment law. 3 credits. (3 plus 0)

### **BA 2990 Special Topics in Business**

*Prerequisite: Permission of the dean of the College of Business.*

Directed study of a special body of subject matter in the field of business. This course may be repeated for additional credit. Variable credit.

### **\*BA 3110 Project Management I**

A study of the models and practice of successful project completion including the management of financials, material resources, communications, and scheduling and tracking systems. Project planning techniques and systems are re-viewed. 3 credits. (3 plus 0)

### **\*BA 3200 Business Ethics**

*Prerequisite: BA 2850.*

A study of ethical theories and their implications in contemporary corporate philosophy and organizational decision making. Topics include establishing ethical codes of conduct, moral reasoning, and social responsibility. 3 credits. (3 plus 0)

### **\*BA 3300 Marketing Research & Decision Making**

*Prerequisites: BA 2500; MA 2025.*

This course will focus on the development and functioning of marketing systems and the formal tools of decision making. Collection techniques and the analysis of data, as

viewed in management information systems, will be reviewed with actual applications and case studies. 3 credits. (3 plus 0)

**\*BA 3500 Advertising**

*Prerequisite: BA 2500.*

Consideration is given to the history of advertising, ethics of advertising, consumer makeup, social and psychological influences, the impact of advertising on demand for product and services, pricing, consumer choice, procedures of building actual ads, and media selection and campaigns. 3 credits. (3 plus 0)

**\*BA 3550 International Marketing**

*Prerequisite: BA 2500.*

An analysis of the legal, economic, cultural and political factors affecting multinational marketing provides the focus for this course. A specific examination of identifying opportunities in foreign markets and the problems of pricing, promoting, and distributing products in those markets. 3 credits. (3 plus 0)

**BA 3560 Entrepreneurship**

*Prerequisites: ACC 2140; BA 2010; BA 2500.*

A comprehensive review of business opportunities in a free enterprise system with emphasis on small business development. Includes research into the requirements to initiate a small business. 3 credits. (3 plus 0)

**\*BA 3650 Compensation Management**

*Prerequisite: BA 2410.*

This course will focus upon the planning and implementing of a total compensation system, including practical experience in job analysis, salary survey, and the development of a structured pay policy. An environmental study of the effects of compensation on behavior and legal implications of salary grades also will be included. 3 credits. (3 plus 0)

**\*BA 3710 Leadership**

*Prerequisites: BA 2010; BA 2700 or SS 2720.*

A study of the theory and practice of leadership. The history of leadership studies is reviewed along with current re-search trends and models. Leadership is compared and contrasted with management. Students assess, develop, and present a leadership model that best succeeds in their work/life environment. 3 credits. (3 plus 0)

**\*BA 3800 Labor Relations**

*Prerequisite: BA 2410.*

A study of union-management relations. It focuses on negotiations and administration of labor agreements with emphasis on the development and application of the more significant bargaining issues. It describes the transaction between two organizations: management and the labor union. 3 credits. (3 plus 0)

### **\*BA 4010 Quality Management**

*Prerequisites: BA 2010; MA 2025; junior standing.*

A study of various quality control and assurance concepts and their integration into a comprehensive quality management system. Topics emphasized are total employee involvement and teamwork, continuous process analysis and improvement, and the importance of a company-wide focus on customer needs. 3 credits. (3 plus 0)

### **\*BA 4500 Purchasing**

*Prerequisite: BA 2500.*

How materials, supplies, and equipment are evaluated for business consumption provides the basis of the course. A step-by-step analysis of the purchasing function from the purchase request to the decision to buy. Included are the principles of vendor evaluation, material management, and procurement. 3 credits. (3 plus 0)

### **\*BA 4700 Training & Development**

*Prerequisite: BA 2410.*

Processes, methods, theories, and practices of training and development activities in business settings. Human re-sources development practices which facilitate learning and change to enhance organizational objectives. 3 credits. (3 plus 0)

### **\*BA 4800 Public Relations**

*Prerequisite: Junior standing.*

Study of principles, cases, and problems to facilitate understanding of the philosophies, objectives, and techniques of public relations in companies, corporations, and institutions. An examination of relations with employees, stockholders, consumers, community, educational institutions, suppliers, dealers, and government. The tools of public relations are examined and applied to case problems. 3 credits. (3 plus 0)

### **BA 4820 Seminar in Human Resource Management**

*Prerequisites: BA 2410.*

Capstone course offered only in summer sessions. Students will attend the National Convention for the Society of Human Resource Management. Globally related conference issues include sexual harassment, compensation planning, dis-abilities, flexible workplaces, global education, and legal perspectives. Provides opportunities for networking and to be-come professionally certified. Requires membership in SHRM. 3 credits. (3 plus 0)

### **\*BA 4910 Business Policy & Strategic Planning**

*Prerequisites: Senior standing; all business core courses; FIN 3600.*

This course will focus on strategic planning, environmental analysis, internal analysis, policy formulation, and control methods. Case studies will be used to examine short-term and long-range plans and their consequences. 3 credits. (3 plus 0)

### **BA 4990 Special Topics in Business**

*Prerequisite: Permission of the College of Business.*

Directed study of a special body of subject matter in the field of business. This course may be repeated for additional credit. Variable credit.

## CHEMISTRY

### **CH 1000 Fundamentals of Chemistry**

*Co-requisite: MA 1035.*

Measurement and units; significant figures; matter and energy; atomic and molecular structure; formulas and equations; chemical bonding; stoichiometry; balancing equations; states of matter; solutions; acids; bases and salts. 3 credits. (3 plus 0)

## COMPUTER SCIENCE

### **CS 1250 Problem Solving for Programmers**

Course introduces methods and tools used to solve problems using computers. Types and sources of problems computer programmers encounter are explored. Logical algorithm development, pseudocoding, selection, and iterative logic are emphasized. Lab work is performed using Microsoft productivity tools. 3 credits. (3 plus 0)

### **CS 2500 Database Systems**

*Prerequisite: IS 1300 or CS 1300.*

Database management systems. Sequential storage devices. Physical characteristics of and data representation on random access storage devices. Inverted lists, multilist, indexed sequential, and hierarchical file structures. File I/O. Unscheduled laboratory. 3 credits. (3 plus 0)

## CRIMINAL JUSTICE

### **CJ 1100 Introduction to the Criminal Justice System**

A survey of the criminal justice system of the United States. The course will examine broad concepts that guide and direct the system of justice in contemporary society and explore the components of the system: the police, the courts and corrections. 3 credits. (3 plus 0)

### **CJ 1200 Criminology**

*Prerequisite: CJ 1100.*

Introduction to theory and research on the nature, causes and prediction of criminality and crime. The first section of the course will address spatial and temporal patterns of crime and victimization while focusing on crime rates across communities and demographic groups. The second section of the course will address theoretical

explanations of criminality and crime. The primary goals of this course include 1) to provide an understanding of current theoretical developments in the explanation of crime and 2) to describe the distribution of both crime and victimization and changes in the rates of crime and victimization. 3 credits. (3 plus 0)

### **CJ 1300 The Police in America**

*Prerequisite: CJ 1100.*

An examination of the police as a component of the American criminal justice system. Beginning with an exploration of the historical evolution of the police, learners will explore contemporary issues and emerging challenges that face this important unit of social control in our nation. 3 credits. (3 plus 0)

### **CJ 1400 Corrections in America**

*Prerequisite: CJ 1100.*

Beginning with a historical overview of the American criminal justice system, this class covers the rationale for punishment and the administration and operational aspects of prison and jail functions at the local, state and federal levels. Issues related to probation, parole, community corrections. 3 credits. (3 plus 0)

### **CJ 2000 Homeland Security**

*Prerequisite: CJ 1100.*

This is a course with a specific focus on issues relevant to homeland security. Topics will include: the evolution of homeland security, understanding terrorism, and current homeland security methods and procedures. Students will be responsible for topics covered both in and out of the text. 3 credits. (3 plus 0)

### **CJ 2300 Substantive Criminal Law**

*Prerequisite: CJ 1100.*

The evolution of substantive law in America from its British and common-law traditions. The learner's examination of this topic will include the limitations and ambiguity of the substantive law. This course may utilize the Indiana Criminal Code as one model of substantive law and may be taught using the case study method. 3 credits. (3 plus 0)

### **CJ 2400 Understanding Procedural Law**

*Prerequisite: CJ 1100.*

The development of an understanding of the application of the substantive law from a procedural perspective. There will be a course focus on significant U.S. Supreme Court cases that have described the boundaries of practice for the police, courts and corrections. This course may be taught using the case study method. 3 credits. (3 plus 0)

### **CJ 2500 Basics of Criminal Investigation**

*Prerequisite:* CJ 1100.

A general theoretical framework for the practice of investigating criminal acts. The components of all investigations; crime scene protocol, collection and preservation of physical evidence, sources of information, and interview and inter-rogation will be among the topics explored. Investigative features of particular crimes (homicide, robbery, rape, larceny, motor vehicle theft, etc.) will also be a focus. 3 credits. (3 plus 0)

### **CJ 2600 Laws of Evidence**

*Prerequisite:* CJ 1100.

The law of evidence is the system of rules and standards by which the admission of proof at the trial of a criminal action is regulated. This course includes topics related to the investigation and adjudication process in criminal cases, including collection of evidence and presentation of evidence at arraignments, preliminary hearings, suppression hearings, and trials, with emphasis on types of evidence admissible in a criminal action. This course may be taught using the case study method, with an emphasis on class participation. 3 credits. (3 plus 0)

### **CJ 3100 A System of Juvenile Justice**

*Prerequisite:* CJ 1100 or HS 1200 for human services majors.

The juvenile justice system in the United States operates in a manner that is slightly different from the adult components of the system. This course will provide an overview of a system that structures the way children are dealt with in regard to delinquency, abuse, neglect and dependency. Methods of addressing the prevention of delinquency and trends in delinquency will also be examined. 3 credits. (3 plus 0)

### **CJ 3200 Understanding Criminal Behavior**

*Prerequisite:* CJ 1100.

This is a psychology and criminal justice course with a specific focus on criminal behavior using a psychosocial approach. More specifically we will be utilizing psychological, psychiatric and sociological approaches to examine why individuals commit criminal and delinquent acts. 3 credits. (3 plus 0)

### **CJ 3300 Victimology**

*Prerequisite:* CJ 1100

Focus on emerging areas in the field, such as the consequences of victimization and empowering victims. The concentration will be on both traditional and modern approaches to victims' issues and concentrates on issues affecting both victims and victim service providers. The course will follow the general guideline of the text, however, and quite frequently, we will move outside of the text for material. Students will be responsible for topics covered both in and out of the text. 3 credits. (3 plus 0)

### **CJ 3510 Community-Oriented Policing**

*Prerequisite: CJ 1300.*

Focus on community-oriented policing and problem solving using criminal justice theoretical based approaches. The course will follow the general guideline of the text, however, and quite frequently, we will move outside of the text for material. Students will be responsible for topics covered both in and out of the text. 3 credits. (3 plus 0)

### **CJ 3520 Crime Scene Investigation**

*Prerequisite: CJ 1100.*

Focus on techniques and methods of crime scene investigation. Topics include: fundamentals of preliminary investigation, identification, protection, and collection of evidence, sketching and photographing the crime scene, interpreting blood stain evidence, fingerprinting techniques. Students will be responsible for topics covered both in and out of the text and the lab portion of the course. 3 credits. (3 plus 0)

### **CJ 3530 Restorative Justice**

*Prerequisite: CJ 3100.*

This is a course with a specific focus on restorative justice. A specific focus will be on theoretical roots of the restorative justice movement and methods and practices in the field. Case studies will be used to facilitate student learning. 3 credits. (3 plus 0)

### **CJ 3620 Forensic Science & Criminalistics**

*Prerequisite: CJ 2500.*

This is a course with a specific focus on the nature and laboratory analysis of physical evidence. Topics include: collection of physical evidence, examination of evidence and the nature of different types of physical evidence. 3 credits. (3 plus 0)

### **CJ 3700 Ethics & Cultural Diversity in Criminal Justice**

*Prerequisite: CJ 1100.*

This is a course with a focus on ethical theories and their consideration in the field of criminal justice. Specific attention will be paid to the application of these theories and the ethical development of criminal justice practitioners. Topics will also include current ethical issues and their relationship to ethical theories and decisions. Students will be responsible for topics covered both in and out of the text and the lab portion of the course. 3 credits. (3 plus 0)

### **CJ 4110 Law Enforcement Planning Process**

*Prerequisite: CJ 1300*

A focus on policy and planning issues in the law enforcement environment. The learner will be exposed to the need for planned change and planned change models. Learners will then be required to identify a problem or law enforcement policy issue and develop a plan to impact that issue. 3 credits. (3 plus 0)

### **CJ 4120 Death Investigation**

*Prerequisite:* CJ 2500.

This course is designed to briefly cover how to recognize and investigate violent, suspicious or unexpected deaths. The student will learn to develop the essential facts regarding the death scene, medical history and other information that assists in the determination of a person's cause and manner of death. The course will cover the 29 national guidelines set forth by the National Institutes of Justice as essential for a coordinated, efficient and complete death investigation. Basic crime scene investigation techniques will be stressed, along with the importance of crime scene and body evidence, however, this course emphasizes the medical aspects of death investigation and is not designed to be a "homicide seminar." 3 credits. (3 plus 0)

### **CJ 4130 Probation & Parole Services & Care**

*Prerequisite:* CJ 1400.

The criminal justice system is comprised of three major components: police, courts, and corrections. This course will take an in-depth examination of the community-based strategies of probation and parole from both a historical perspective and what is currently being utilized today. This examination will explore the duties and objectives of contemporary probation and parole agencies and tracks the progress of an individual through each phase of the community-based systems. 3 credits. (3 plus 0)

### **CJ 4210 Police Organization & Management**

*Prerequisite:* CJ 1300.

An in-depth examination of the administrative and leadership practices necessary in the operation of a contemporary police organization. In part, this course will demonstrate and discuss the application of modern management theory in the police environment. The focus here is on the operation of an urban police department (100+ officers) and the functional components of such an agency. 3 credits. (3 plus 0)

### **CJ 4220 Criminal Profiling**

*Prerequisites:* CJ 2500; CJ 3200.

This is a course with a specific focus on criminal profiling utilizing psychological and criminal justice based approaches. The class will concentrate on the processes of identifying personality traits, behavioral tendencies, geographical location and demographic variables of an offender based on characteristics of a crime. 3 credits. (3 plus 0)

### **CJ 4230 Corrections Counseling**

*Prerequisites:* CJ 1400; PSY 1700.

This is a course with a specific focus on treatment and counseling approaches to offender rehabilitation. The emphasis is on different types of treatment for juvenile and adult offenders. 3 credits. (3 plus 0)

## **CJ 4320 Fundamentals of Crime Analysis**

*Prerequisite: CJ 2500.*

An overview of the variety of analytical techniques utilized in law enforcement to describe and understand crime pat-terns and trends as they occur in contemporary society. Exposure to the basic stages of crime analysis: collection of data, the collation of that data, analysis of data, dissemination of data, and feedback and evaluation of the end users of crime analysis data. 3 credits. (3 plus 0)

## **COMMUNICATION**

### **COMM 1700 Photography**

An introduction to photography and photographic history. Photography basics of camera, film, composition, lighting, digital photography, darkroom and creative photography. 3 credits. (3 plus 0)

## **ENGINEERING**

### **EGR 1710 Engineering Graphics & Design**

*Prerequisite: MA 1010 or concurrent registration.*

Introduction to the engineering profession and design. Development of the design process and communication skills. Principles of engineering graphics and computer-aided-design. Group projects. 3 credits. (3 plus 0)

### **EGR 2000 Engineering Communication**

This course develops two significant engineering communication skill sets: effective technical writing and effective oral presentations. Each student will create technical documents (such as work instructions and user manuals) and a technical paper suitable for publication in an engineering journal. Throughout the course, students will make oral presentations concluding with software-based capstone presentations of their technical papers. 3 credits. (3 plus 0)

### **EGR 2600 Materials Science**

*Prerequisites: CH 1000 or CH 1220; PH 1100 or PH 1300.*

The mechanical, electrical, optical, thermal and magnetic properties of engineering materials; structure of matter; crystalline structure and imperfections; environmental effects; selection of materials in design. 3 credits. (3 plus 0)

### **EGR 2650 Manufacturing Processes**

*Prerequisite: EGR 2600 or advisor approval.*

An introduction to the many processes used in manufacturing. 3 credits. (3 plus 0)

### **EGR 3430 Applied Probability & Statistics**

*Prerequisite: MA 1100 or MA 1200.*

Probability theory, distribution functions, acceptance sampling, normal distribution, chi square distribution, statistical tests, analysis of variance, regression analysis. 3 credits. (3 plus 0)

### **EGR 3600 CAD I – Parametric Model**

*Prerequisites: EGR 1710; MA 1035.*

This course is based on 3D CAD modeling procedures including: layers, curves, entities, design features, surface features, and assemblies. Design projects will focus on practical applications. 3 credits. (3 plus 0)

### **EGR 4400 Professional Practice I**

*Prerequisite: Junior/senior standing.*

A study of the concepts and methods required to make design and planning decisions, including capital investment decision making, time-value of money, equivalence, multiple alternatives, replacement criteria, and cost of capital depreciation. Professional engineering ethics and interaction with government, industry, and related agencies. Computer applications. 3 credits. (3 plus 0)

## **ENGINEERING MECHANICS**

### **EM 2030 Statics & Dynamics**

*Prerequisites: MA 1100 or concurrent registration; PH 1100. Open to industrial and manufacturing engineering students only.*

Study of forces on bodies at rest and on moving bodies. Vector of algebra, forces in two and three dimensions, free-body diagrams, equilibrium, centroids and centers of gravity, friction, and moment of inertia. Kinematics of particles and rigid bodies, plane motion. 3 credits. (3 plus 0)

## **ENGLISH**

### **ENG 1100 Introduction to College Writing**

*Prerequisite: Placement into ENG 1100 or ENG 1000 with grade C or better.*

This course requires students to engage in sustained reading and writing practices. Students will read a variety of texts and write a number of short essays. This course culminates with a paper of at least 1000 words. College credit awarded, but will not be applied toward degree requirements. 3 credits. (3 plus 0)

### **ENG 1250 English Composition I**

*Prerequisite: Placement in ENG 1250 or completion of ENG 1000 and/or ENG 1100 (if*

*required by placement) with grade C or better.*

This course is an introduction to expository writing for a variety of aims and audiences. Students learn to write as a process and are briefly introduced to research and proper documentation. 3 credits. (3 plus 0)

### **ENG 1270 English Composition II**

*Prerequisite: ENG 1250 with grade C or better.*

This course is an introduction to the writing of researched essays for a variety of aims and audiences. Students analyze rhetorical style, structure, and argumentation, with an emphasis on building critical thinking skills. 3 credits. (3 plus 0)

### **ENG 2320 Professional Communication**

*Prerequisite: ENG 1270 with grade C or better.*

The refinement of verbal and written communication skills for the professional world, with emphasis on applications that develop and synthesize these skills. 3 credits. (3 plus 0)

### **ENG 2400 Grantwriting**

*Prerequisite: ENG 1270 with grade C or better.*

Includes information and practice in finding potential sources of grant support, interpreting grant program guidelines, understanding how funding agencies operate charitable giving programs, and properly arranging the components of a typical grant proposal. How to research corporations, private foundations and other funding organizations. Students are required to develop an actual grant proposal. 3 credits. (3 plus 0)

## **FINANCE**

### **FIN 3600 Corporate Finance I**

*Prerequisite: ACC 2140.*

Financial statement analysis, the concepts of leverage, working-capital practices, cash management, management of marketable securities, inventory financing, stock and bond valuation, cost-of-capital concept, and mergers and acquisitions. International risks, foreign-exchange market, stock dividends, and stock splits. 3 credits. (3 plus 0)

### **FIN 3620 Corporate Finance II**

*Prerequisite: FIN 3600 with grade C or better.*

A continuation of Corporate Finance covering critical areas of financial management such as cash flow estimation and risk analysis, capital structure, dividend policy, working capital management, financial forecasting, multinational finance and mergers & acquisitions. 3 credits. (3 plus 0)

### **FIN 3680 Financial Markets & Institutions**

*Prerequisite: FIN 3600.*

This course applies principles of finance to understand modern financial markets. The

course examines why financial markets exist, the pricing function markets perform and how financial institutions serve those markets. It covers the securities traded in each market and how financial institutions participate in the financial intermediation as they connect individuals and organizations to capital markets. Course also examines the functions, practices and regulatory requirements of various types of financial institutions. 3 credits. (3 plus 0)

### **FIN 3700 Financial Analysis & Valuation**

*Prerequisite: FIN 3600.*

A course in the use of financial analysis as a tool to value a firm's debt and equity. Emphasis is placed on the use of key financial statements as the basis for valuation in order to make sound business investment decisions. Fundamental analysis, forecasting and methods of valuation will be examined in detail within the context of financial decision making. 3 credits. (3 plus 0)

### **FIN 3800 Investments**

*Prerequisite: FIN 3600.*

A course in investments, portfolio theory, and security analysis. The course includes coverage of traditional fundamental analysis, Capital Market Theory, Efficient Markets Hypotheses, and the Capital Asset Pricing Model. The course is in-tended for those who may manage personal funds, the funds of a corporation, or who may need to raise funds in capital markets. 3 credits. (3 plus 0)

## **FOREIGN LANGUAGES**

### **SPA 1100 Conversational Spanish I**

Fundamentals of pronunciation, conversation, grammar, and composition. Cannot be taken for credit by native Spanish speakers or students with three or more secondary class units of Spanish. 3 credits. (3 plus 0)

### **SPA 1200 Conversational Spanish II**

*Prerequisite: SPA 1100.*

Continuation of Spanish I. Fundamentals of pronunciation, conversation, grammar, and composition of Spanish. SPA 1200 cannot be taken for credit by native Spanish speakers. 3 credits. (3 plus 0)

### **SPA 1300 Spanish for Business**

*Prerequisite: SPA 1100.*

Introduction to the Spanish business world and commercial language. Development of business vocabulary and business conversation skills. 3 credits. (3 plus 0)

# HEALTH CARE ADMINISTRATION

## **HCA 1100 Introduction to Health Care Administration**

Study of the U.S. health care system, its history, organization and functions. Study of the interaction of providers, administrators, and consumers interact in the system. 3 credits. (3 plus 0)

## **HCA 2100 Legal Aspects of Health Care Administration**

*Prerequisite: HCA 1100.*

Basic knowledge of law as it applies to the health care field. Provides a working knowledge of health law enabling students to deal with common legal, ethical and practical problems facing the industry. 3 credits. (3 plus 0)

## **HCA 2990 Special Topics in Health Care Administration**

*Prerequisite: Permission of the dean of the College of Business.*

Directed study of a special body of subject matter in the field of health care administration. This course may be repeated for additional credit. Variable credit.

## **HCA 3100 Finance of Health Care Organizations**

*Prerequisites: ACC 1010; HCA 1100.*

Factors and economics of health care organizations. Information concerning insurance, Medicare, Medicaid, government regulations, reimbursement systems, accessibility, budgeting, and human resources. National health insurance and state/local initiatives will be discussed. 3 credits. (3 plus 0)

## **HCA 3200 Health Care Policy**

*Prerequisites: HCA 1100; HCA 2100.*

Comprehensive overview of major health policy issues. Through examination of governmental and political involvement in the organizations and financing of health care services, the course emphasizes factors influencing policy formation. 3 credits. (3 plus 0)

## **HCA 4100 Managed Care & Medical Group Practice**

*Prerequisite: HCA 1100*

Focus on managed health care strategies and their relationship to medical group practice management in the constantly changing environment of health care services. 3 credits. (3 plus 0)

## **HCA 4200 Long-term Care Administration**

*Prerequisite: HCA 1100.*

Study of long-term care centers. Analysis of the various settings such as nursing homes, assisted living, retirement communities, home health care, and adult day care. Issues of finance, access, legality, ethics, human resources, and current topics are addressed. 3 credits. (3 plus 0)

### **HCA 4950 Health Care Administration Internship**

Experiential learning through placement with health care facilities or related organizations. Students are assigned duties and activities involving application of theory, knowledge and skills acquired in related coursework. May enroll more than once and for variable credit.

## **HEALTH INFORMATION TECHNOLOGY**

### **HIT 1100 Medical Terminology**

(Formerly BIO 1140) Prefixes, suffixes and word roots used in the field of medicine. Topics include medical vocabulary and terms related to anatomy, physiology, pathological conditions, medical treatments, and rudimentary. 3 credits. (3 plus 0)

### **HIT 1200 Health Information Technology & Systems**

*Prerequisite or co-requisite: HCA 1100*

An introduction to computer system technologies and networks applied to the delivery of healthcare. This includes the selection, implementation, interoperability, use and value provided by systems used to support healthcare business, clinical care delivery, healthcare administration, public health, health and healthcare delivery outcome tracking and reporting. 3 credits. (3 plus 0)

### **HIT 1300 Medical Coding**

*Prerequisite or co-requisite: HIT 1100*

This course provides a foundation for the development, maintenance, and use of medical records using established coding standards and procedures, including ICD-10, Current Procedural Terminology, and HCPCS. 3 credits. (3 plus 0)

### **HIT 1400 Advanced Coding**

*Prerequisite: HIT 1300*

A continuation of Medical Coding, this course includes a study of nomenclature versus classification systems, continues with advanced coding principles, and application of coding guidelines, including sequencing guidelines. Case studies and health records are used to allow students to provide students with hands-on application. The relationship between coding and reimbursement is covered, and students continue the use of software to code and assign MS-DRG and/or APCs to each case. 3 credits. (3 plus 0)

### **HIT 2000 Health Data Management**

*Prerequisite: HIT 1200*

An introduction to the use of technology in the capture, delivery and analysis of health data in the delivery of services across the continuum of care. The course focuses on the use of electronic health records, data mining, and report generation. 3 credits. (3 plus 0)

### **HIT 2200 Health Data Privacy and Security**

*Prerequisites: HIT 1300*

This course provides an introduction to policies and practices governing the legal health record. This includes the implementation of HIPAA regulations, policies involving the release and use of protected health information, and the security of health data. 3 credits. (3 plus 0)

### **HIT 2400 Health Information Technology Project Management**

*Prerequisites: HIT 2000*

Health information technology is providing transformative change to highly complex organizations and systems. This course provides basic knowledge and skills for project and change management with a focus on electronic health records and their relationships to multiple stakeholders. 3 credits. (3 plus 0)

### **HIT 2600 Health Information Technology Field Experience**

*Prerequisites: HIT 2000; MIS 3100*

This course provides a basis for students to demonstrate knowledge and skills to field projects that provide a foundation to launch a career in health information technology. 3 credits. (3 plus 0)

## HUMAN SERVICES

### **HS 1200 Introduction to Human Services**

An overview of the program, philosophies, history, and economics of human and social service agencies. 3 credits. (3 plus 0)

### **HS 1500 Helping Relationships**

*Prerequisite: HS 1200.*

This course provides the student an opportunity to increase effectiveness in helping people. This course examines the helping process in terms of skills, helping stages, and issues involved in a helping relationship. 3 credits. (3 plus 0)

### **HS 2000 Human Services Programming**

*Prerequisite: HS 1200.*

Principles and techniques for human services programming, including philosophical foundation, needs assessment, objective writing, program planning, and evaluating methods. 3 credits. (3 plus 0)

### **HS 2600 Human Services Field Experience**

*Prerequisite: HS 2000.*

Actual leadership experience in a human services setting or by participation in an organized human services program. Theory is coordinated with practical experience. 3 credits. (3 plus 0)

### **HS 4950 Human Services Internship**

*Prerequisite: HS 2600.*

Professional experience in a setting related to the field. The specific work setting and type of responsibilities are determined through consultation with the supervising instructor. Work responsibilities should be professional in nature and should not duplicate the HS 2600 Field Experience. Approved elective(s) may be substituted for this class. Variable credit.

## **HUMANITIES**

### **HUM 2000 Introduction to Humanities**

*Prerequisite: ENG 1270*

Introduction to disciplines in the humanities, including visual art, music, philosophy, literature, and performing arts. 3 credits. (3 plus 0)

### **HUM 2510 Music Appreciation**

*Prerequisite: ENG 1270.*

Designed to develop a wider knowledge and enjoyment of music, especially the Western Classical tradition, to encourage appreciation of composers and performers, to enhance intelligent listening to recorded music, and to compare the classical heritage with alternative styles. 3 credits. (3 plus 0)

### **HUM 2520 Art Appreciation**

*Prerequisite: ENG 1270*

Designed to provide a broader knowledge and deeper understanding of the visual arts, including architecture, sculpture, and painting, and relate this experience to the contemporary world enhancing awareness of both man-made and natural environments within which we live. 3 credits (3 plus 0)

### **HUM 2730 Introduction to Philosophy**

*Prerequisite: ENG 1270.*

The major philosophic orientations in the study of human culture emphasizing intellectual systems from Classical Greece through the 20th century centering in the development of Western Civilization, and in relation to non-western perspectives evident in global interactions toward the end of the century. 3 credits. (3 plus 0)

### **HUM 2990 Special Topics in Humanities**

*Prerequisite: ENG 1270.*

Directed study of a special body of subject matter in the field of humanities. This course may be repeated for additional credit. Variable credit.

### **HUM 3110 Introduction to Cinema**

*Prerequisite: ENG 1270*

(Formerly COMM 2100) A study of film as a mass media. Fundamental elements of film and examination of the social, cultural, political and aesthetical values communicated by film. Critique and analysis of both narrative and documentary film. 3 credits. (3 plus 0)

### **HUM 3220 Philosophy of Law**

*Prerequisite: HUM 2730.*

This course introduces students to the two traditions concerning the justification for laws. First, legal positivism, which assumes no intrinsic connection between law and morality. Second, natural law theory, which insists upon such an intrinsic connection. After students have become familiar with these traditions and their major exponents, we will examine three reasons laws are enacted: the harm principle, the offense principle, and the parental principle. 3 credits (3 plus 0)

### **HUM 3310 Interpretation of Fiction**

*Prerequisite: ENG 1270.*

Appreciation of great fiction with the techniques and skills used in writing and interpreting the novel and short story. 3 credits. (3 plus 0)

### **HUM 3320 Major British Writers**

*Prerequisite: ENG 1270.*

An introduction to selected poets, novelists, and dramatists in British literature. 3 credits. (3 plus 0)

### **HUM 3330 American Writers**

*Prerequisite: ENG 1270*

Selected American writers representative of key literary movements in the United States. 3 credits. (3 plus 0)

### **HUM 3360 African-American Literature**

*Prerequisite: ENG 1270.*

An introduction to the literature of Americans of black African ancestry. Special attention will be given to major developments in form and themes, major writers, and the evolution of an African-American literary tradition. 3 credits. (3 plus 0)

### **HUM 3710 Ethics**

*Prerequisite: ENG 1270.*

Introduction to classical ethical theory; how to adopt ethical perspectives; appreciation for ethical problems with applications for contemporary issues such as euthanasia, hunger and welfare, capital punishment, and corporate responsibility. 3 credits. (3 plus 0)

### **HUM 3720 Advanced Critical Thinking**

*Prerequisite: ENG 1270.*

Evaluation of forms of argument; recognition and detection of argumentative fallacies; deductive and inductive thinking; and an introduction to formal logic structures. 3 credits. (3 plus 0)

## **INDUSTRIAL & MANUFACTURING ENGINEERING**

### **IME 2010 Safety Engineering**

*Prerequisite: BA 2010.*

Principles of safety engineering applied to industrial situations. Topics include job safety analysis, accident investigation, personal protective equipment, fire and electrical safety, facilities and layout. 3 credits. (3 plus 0)

### **IME 2020 Work Design**

*Prerequisite: IME 2010.*

Motion study practices relating the worker to equipment and environment. Application of the principles of motion economy, time study, use of flow process diagrams, worker-machine charts, micro-motion analysis, time formulas, work sampling, rating, allowances, standard date systems and predetermined time standards. Techniques and procedures for developing and applying the principles of human factors engineering to systems design. 3 credits. (3 plus 0)

### **IME 2110 Quality Control I**

*Prerequisites: MA 1035; sophomore standing.*

An introduction to the quality concepts, procedures, and documentation needed to establish an effective quality system. Specific tools include pareto diagrams, cause and effect diagrams, check sheets, histograms, scatter diagrams, run charts, control charts, and process capability. Projects and computer applications. 3 credits. (3 plus 0)

### **IME 3020 Computer Simulation of Manufacturing Processes I**

*Prerequisite: EGR 3430.*

Computer simulation of manufacturing processes. Systems simulation structure, logic, and methodology using simulation to identify opportunities for process improvement. Application of random numbers and statistical distributions. Importing CAD graphics and other external files into simulation models. Introduction to manufacturing simulation project management. 3 credits. (3 plus 0)

### **IME 3040 Computer Integrated Manufacturing**

*Prerequisites: MA 1100; EGR 1710.*

A study of the design and use of computer-based integrated manufacturing management systems for the allocation and control of plant, equipment, manpower, and materials. 4 credits. (3 plus 3)

### **IME 3060 Advanced Computer Integrated Manufacturing**

*Prerequisites: EGR 2650; IME 3040.*

This course provides a vehicle for students to apply in an open-ended situation the lessons learned in previous courses such as Computer Integrated Manufacturing. The course focuses on automation of flexible measuring cells. The objective is to offer a final training to upper-level students in implementation of computer-based automation helping them prepare themselves for a contemporary, high-tech, manufacturing workplace. 3 credits. (3 plus 0)

### **IME 3110 Quality Control II**

*Prerequisite: IME 2110.*

An introduction to the quality concepts, procedures, and documentation needed to establish an effective quality system. Specific tools include: gage R & R, control charts for attributes, sampling plans, reliability, cost of quality, and an introduction to TQM. Projects and computer applications. 3 credits. (3 plus 0)

### **IME 3120 Design of Experiments**

*Prerequisite: EGR 3430.*

A study of how to design experiments and use statistical analysis to determine the sensitivity of the output of a process to changing input parameters. Included are randomized designs, hypothesis testing, analysis of variance (ANOVA) with single factor experiments, randomized Block Design, Latin Square designs, incomplete and complete Block Designs, 2k Factorial Designs, replication, Nested Designs, split-plot design, regression analysis, response surface methods, covariance, and the Taguchi Method. 3 credits. (3 plus 0)

### **IME 4020 Lean Manufacturing**

*Prerequisites: IME 2020; EGR 2650.*

The study of the principles and practices used to identify and minimize non-value-added activities present in the manufacturing environment. Concepts covered include pull systems, cellular flow, quick change-over, quality at the source, point-of-use storage, 5-S, standardized work, visual control systems, and value of stream mapping. Emphasis is placed on moving from a focus of local optimums to optimizing the entire system. 3 credits. (3 plus 0)

### **IME 4110 Total Quality Management**

*Prerequisite: IME 3110.*

The examination of various quality control and assurance concepts and their integration into a comprehensive quality management system. 3 credits. (3 plus 0)

### **IME 4300 Integrated Resource Management**

*Prerequisites: IME 4020; EGR 3430.*

Manufacturing planning from supply through distribution. Concepts include: Supply Chain Management, Economic Order Quantity, Just-in-Time (JIT), MRP, MRP II, ERP, and Distribution Requirements Planning (DRP). Course will include exposure to related software and e-commerce best practices. 3 credits. (3 plus 0)

### **IME 4950 IME Internship**

*Prerequisite: Permission of the faculty advisor.*

Directed study of IME-related student work experience. Cannot be repeated unless approved by the dean. 3 credits. (3 plus 0)

### **IME 4975 IME Senior Project**

*Prerequisites: EGR 2000; senior standing. CPS students only.*

The presentation of a creative engineering design solution to a real-world problem. The design solution will involve the formal and creative application of mathematics, science, and engineering theory. Students will aim to produce systems that will be safe, robust, cost-effective, and are technically sound solutions to the problem. One semester course. 4 credits.

## **INFORMATION SYSTEMS**

### **IS 1300 Programming I**

*Prerequisite: CS 1200 or 1250 with grade C or better; co-requisite: MA 1035.*

An introduction to computer programming using the Java language, beginning with the fundamental steps needed to create, compile and run simple stand-alone applications that are platform-independent. Students will learn how to use primitive data types, control statements, methods, and arrays in their software. In addition to covering essential techniques, this course prepares students for an advanced object-oriented Java programming course. Scheduled and unscheduled projects. 3 credits. (3 plus 0)

### **IS 2100 Internet Programming**

*Prerequisite: IS 1300.*

An introduction to the Internet and Web programming. Topics will include fundamentals of the Internet with existing and evolving technologies. Focuses on Web page development using basic and advanced programming techniques. Weekly scheduled laboratory and unscheduled laboratory. 3 credits. (3 plus 0)

### **IS 2200 Developing Business Solutions**

*Prerequisites: IS 1100 or IS 1150; ACC 1010 or OL 3400.*

An introduction to solving business problems through the application of information technology. Using spreadsheet and database productivity software students solve problems including inventory management, accounts receivable and payable, payroll, financial analysis, sensitivity analysis, human resource tracking and small application development. Topics such as worksheet formatting, macro building, financial functions, data and regression analysis, database design, queries and sorting, interface design are covered. 3 credits. (3 plus 0)

## **IS 2300 Programming II**

*Prerequisites: IS 1300; MA 1035.*

A comprehensive second programming course using the Java language. Students will build on their previous basic Java programming knowledge to create class-centric, object-oriented applications that uses abstraction, encapsulation, inheritance, and polymorphism to provide great flexibility, modularity, and reusability in developing software. Graphics programming topics, including event-driven programming, creating graphical user interfaces, and writing applets are covered. Several advanced features such as using exception handling to make programs robust, using multi-threading to make programs more responsive and interactive, incorporating sound and images to make programs user-friendly, using input and output to manage and process a large quantity of data, and creating client/server applications may also be covered. Scheduled and unscheduled laboratory projects. 3 credits. (3 plus 0)

## **IS 2900 Web Applications**

*Prerequisites: IS 2100; CS 2500.*

An introduction to the technical and business aspects of web applications. Students will develop and design a web-based software product that meets the long-term requirements of reusability, flexibility, scalability, and reliability. Unscheduled lab. 3 credits. (3 plus 0)

## **IS 3100 Information Security**

*Prerequisite: Junior standing and pursuing a computer sciences major or minor.*

An introduction to the various technical and administrative aspects of information security and assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. 3 credits. (3 plus 0)

## **IS 4100 Systems Analysis & Design**

*Prerequisite: IS 2300; CS 2500*

An overview of the systems development life cycle with emphasis on the techniques and tools of system documentation and logical systems specifications. 3 credits. (3 plus 0)

## **IS 4600 Disaster Recovery**

*Prerequisite: IS 3100.*

This course examines the strategies and activities for limiting the impact to and recovery of information systems, net-works, and data should a disaster occur. Recovery and test plans are developed and analyzed to return mission-critical systems to an optimally secure and functional state. Risk identification and analysis are explored for assets, physical facilities and end-user functions with secure accessibility. Topics include data assurance, information security, project management disciplines, and business continuity planning. 3 credits. (3 plus 0)

### **IS 4800 Technical Project Management**

*Prerequisite: Senior standing or administrative approval.*

Concepts and practical applications including tools and techniques for management of technical projects with emphasis on scope, time, communication, and resources. Topics covered include: task estimating and scheduling, project scope, and resource management. 3 credits. (3 plus 0)

## **MANAGEMENT INFORMATION SYSTEMS**

### **MIS 1300 Software Tools**

This course studies a variety of office suite packages which include word processing, spreadsheets, presentations and office automation features. Emphasis is on document and spreadsheet usage and contrasting features of each platform. 3 credits. (3 plus 0)

### **MIS 1500 Computer Systems & Hardware**

*Prerequisite: MIS 1300.*

This course prepares students to effectively manage a variety of hardware issues, such as installation, configuration, up-grading, diagnosing, troubleshooting, safety, preventative maintenance, the principles of motherboards, processors, and memory in microcomputer systems. 3 credits. (3 plus 0)

### **MIS 2100 Networking & Infrastructure**

*Prerequisite: MIS 1500.*

A survey of network and telecommunications design as they relate to information systems. Topics include hardware, voice, data, video, and digital wireless infrastructure technologies. 3 credits. (3 plus 0)

### **MIS 2150 Component Analysis & Design**

*Prerequisite: MIS 2100.*

Continuation of MIS 2100. Application of networking technologies as they relate to business environments. Analyze and design a network topology for a new environment and an existing structure with emphasis on compatibility. 3 credits. (3 plus 0)

### **MIS 3000 Programming Logic**

*Prerequisite: MIS 1300.*

Effective development and documentation of logic structures are reviewed for usage in file management utilizing perspectives of sequence, selection, iteration, and modular programming. 3 credits. (3 plus 0)

### **MIS 3100 Database Management**

*Prerequisite: MIS 1300.*

This course emphasizes relational database development, usage, and control with

exposure to a variety of end user and managerial programs for utilization in a professional environment. Related topics also include normalization and conceptual design using entity relationship diagramming. 3 credits. (3 plus 0)

### **MIS 3150 Database Applications Development**

*Prerequisite: MIS 3000 or MIS 3100.*

This course emphasizes database application development within multi-tier systems, emphasizing the development of front-end user interfaces. The course is also an introduction to Structured Query Language (SQL). 3 credits. (3 plus 0)

### **MIS 3200 Web Applications & the Internet**

*Prerequisites: MIS 2150; MIS 3000.*

The course presents strategic and operational uses of the Internet and the World Wide Web by business organizations. Packaged software is used to design a Web site and develop Web pages. Ongoing management issues are addressed for maintaining a dynamic Web site. 3 credits. (3 plus 0)

### **MIS 4000 Enterprise Resource Planning**

*Prerequisites: MIS 3000; MIS 3100.*

ERP systems provide the foundation for a wide range of e-commerce based processes including web-based ordering and order tracing, inventory management, and built-to-order goods. This course examines the pros and cons of ERP systems, explains how they work, as well as the issues related to system selection, design and implementation. 3 credits. (3 plus 0)

### **MIS 4200 Systems Analysis & Design**

*Prerequisite: MIS 3150.*

An overview of the system's development life cycle with emphasis on techniques and tools of system documentation and logical system specifications. Concepts covered include detailed analysis of information systems project initiation. 3 credits. (3 plus 0)

### **MIS 4400 MIS Project Management**

*Prerequisite: MIS 4200.*

This course covers the components of successful project completion including scope, financials, resources, milestones, tracking, and communications. Project-planning software will be utilized to apply theoretical concepts and review documentation. 3 credits. (3 plus 0)

## **MATHEMATICS**

### **MA 1000 Foundations of College Mathematics**

Topics include computation with integers and rational numbers using correct order of operations, ratios, and proportions. The student also learns percent concepts and

solving equations involving percentages. Other covered topics are exponents and simplifying and solving equations and inequalities with one variable. Using linear equation problem solving strategies to solve application problems is emphasized. Graphing lines using slope and y-intercept is also taught. Problem solving is integrated throughout and appropriate use of calculators is expected. 3 credits. (3 plus 0)

### **MA 1010 Basic Algebra**

*Prerequisite: MA 1000 with grade C or better.*

Real numbers, algebraic expressions, basic rules of algebra, ratios and proportions, exponents (including negative exponents and rational exponents), radicals, formulas, Cartesian plane, distance between points, midpoint of a line segment, polynomials, operations on rational expressions, and solving linear equations and inequalities (in one variable). This course may not be applied toward degree requirements. 3 credits. (3 plus 0)

### **MA 1025 Mathematical Problem-Solving**

*Prerequisite: MA 1000 with grade C or better.*

Topics in algebra include exponents and their properties and addition, subtraction, and multiplication of variable expressions. Solving and applying linear equations and applying exponential equations are studied. Graphing lines and linear inequalities using slope-intercept form and solving systems of equations and inequalities as they relate to business, social science, and finance applications and displaying data are also covered. Throughout the course application problems and appropriate technology will be emphasized. 3 credits. (3 plus 0)

### **MA 1035 College Algebra**

*Prerequisites: MA 1010 with grade C or better.*

Real numbers, and algebraic expressions, functions and graphs, equations and inequalities, systems of equations and inequalities, exponential and logarithmic functions, and complex numbers. 3 credits. (3 plus 0)

### **MA 1040 Finite Mathematics**

*Prerequisite: MA 1035 with grade C or better.*

Set theory, coordinate systems and graphs, linear programming (geometric approach and algebraic approach), matrices and linear systems, permutations and combinations, probability, statistics, mathematics of finance. 3 credits. (3 plus 0)

### **MA 1060 Trigonometry**

*Prerequisite: MA 1035 with grade C or better.*

Basic concepts of trigonometry, trigonometric functions, trigonometric identities and equations, and applications of trigonometry. 3 credits. (3 plus 0)

### **MA 1100 Applied Calculus I**

*Prerequisite: MA 1035 with grade C or better.*

Functions and graphs, limits, differentiation, curve sketching, exponential and logarithmic functions, antidifferentiation and integration. 3 credits. (3 plus 0)

### **MA 1110 Applied Calculus II**

*Prerequisite: MA 1100 with grade C or better.*

Integration, series, multivariable calculus, differential equations. 3 credits. (3 plus 0)

### **MA 2010 Foundations of Statistics**

*Prerequisite: MA 1025 with a grade of C or better.*

The purpose of the course is to help students understand just how much data and statistical analysis have to say about their lives and the world around us. This course emphasizes concepts and statistical thinking rather than computation. The course will focus on statistical concepts and methods for producing data and organizing data. It also will explore elements of probability used to describe chance, variation, and risk. 3 credits. (3 plus 0)

### **MA 2025 Statistical Problem-Solving**

*Prerequisite: MA 1025 with grade C or better.*

This course will include basic statistical terminology, mean, median, mode, and designing experiments. In addition, standard deviation, variance, normal distribution, probabilities, correlation, statistical inference, and sampling distribution will be covered. Additional topics include regression analysis, confidence intervals, hypothesis testing, and one and two sample t statistics are also to be included. All topics should be used in appropriate application solving applied problems with appropriate technology. 3 credits. (3 plus 0)

## **NETWORKING**

### **NET 1100 Introduction to Networking**

A survey of network fundamentals and telecommunications design as they relate to information systems. Topics covered include hardware, voice, data, video, and digital wireless infrastructure technologies. 3 credits. (3 plus 0)

## **ORGANIZATIONAL LEADERSHIP**

### **OL 3000 Employee Development**

*Prerequisite: BA 2700*

This course is a study in current theories and concepts of employee development. Students will examine practical approaches to ensuring that employees develop the knowledge and skills to perform effectively in their jobs and advance in their careers.

The course will look at the role of training and development, coaching, mentoring, and developmental planning as well as performance management, appraisal, and feedback. 3 credits. (3 plus 0)

### **OL 3200 Managing Organizational Change & Continuous Improvement**

*Prerequisite: OL 3000.*

This course examines the role of change and continuous improvement in organizations. Students will be introduced to theoretical concepts involved with organizational change and continuous improvement and learning. They also will analyze the forces that drive organizations to change and examine processes for planning and implementing effective organizational change. 3 credits. (3 plus 0)

### **OL 3300 Quantitative Decision-Making**

*Prerequisite: OL 3200, MA 1000*

A course designed to give OL students the specific math background to understand, correlate, and analyze data. It covers mathematical operations, how to use a calculator effectively to solve organizational problems, equations, and graphs, simultaneous equations and their applications (i.e. breakeven analysis), simple regression and descriptive statistics (mean, median, mode, standard deviation, histograms and Pareto charts). 3 credits. (3 plus 0)

### **OL 3400 Financial Systems for Decision-Making**

*Prerequisite: OL 3300 for business majors; MA 2025 for IS majors; IME 2110 for ENE and IME majors.*

This course addresses the analysis of managerial planning and control systems. It examines the development and administration of operating reports, budgets, and financial support systems. Accounting vocabulary and financial statement analysis are also introduced, emphasizing financial information for effective organizational leadership. 3 credits. (3 plus 0)

### **OL 4000 Strategic Planning**

*Prerequisite: OL 3400*

This is a process oriented course that reviews planning activities such as developing a company mission, competitive analysis, company situation analysis, potential strategies supported by a traditional SWOT review, competitive advantage, growth scenarios, the role of setting specific objectives in implementing strategies, and financial projections. This course shows how to transform the company mission statement into an actionable plan. 3 credits. (3 plus 0)

### **OL 4100 Qualitative Decision-Making**

*Prerequisite: OL 4000.*

A review of methods used to collect information to support business decisions, such as customer surveys, employee surveys, focus groups, competitive studies, and benchmarking. Topics include designing procedures to obtain unbiased data, scaling

methods, and analysis and interpretation of data to produce credible results and recommendations. Emphasis is placed on intelligence necessary to support strategic planning activities and initiatives. 3 credits. (3 plus 0)

### **OL 4900 Organizational Leadership Capstone**

*Prerequisite: OL 4100.*

A format of synthesis is implemented, bringing together concepts and processes of prior studies within the organizational leadership program. Emphasis is placed on viewing the organization from a strategic management and integrated problem-solving perspective. 3 credits. (3 plus 0)

## PHYSICS

### **PH 1000 Physical Science**

Introduction to basic ideas of physics, chemistry, and the nature of scientific inquiry, with an emphasis on learning about learning, and how elementary students think and learn about science. 3 credits. (3 plus 0)

### **PH 1100 Fundamentals of Physics**

*Prerequisites: MA 1035; MA 1060 or concurrent registration.*

Basic mechanics: vectors, kinematics in one and two dimensions, Newton's Laws, work, energy, momentum, rotational motion. Laboratory is incorporated into the course. 3 credits. (3 plus 0)

### **PH 2100 Fundamentals of Physics II**

*Prerequisite: PH 1100.*

Basic electricity and magnetism, with emphasis on DC... Laboratory is incorporated into the course. 3 credits. (3 plus 0)

## PSYCHOLOGY

### **PSY 1700 Introduction to Psychology**

The fundamental principles of psychology including, but not limited to, research methodology, perception, development, motivation, consciousness, learning, thinking, stress management and social relationships. 3 credits. (3 plus 0)

### **PSY 1750 Human Growth & Development**

*Prerequisite: PSY 1700.*

A life-span human development course which integrates biology, psychology, sociology, medicine, demography, economics and anthropology perspectives from conception to death. Emerging trends in research. 3 credits. (3 plus 0)

### **PSY 2000 Understanding Diversity**

This course explores race, gender, sexuality, sexual orientation, socioeconomic class, and systemic influences. Emphasis is placed on the connection among individuals, institutions and cultural groups, and on the relatedness of individuals' race, gender, sexual orientation, and socioeconomic class. Theoretical and philosophical frameworks and research are presented through readings and course materials drawn from education, psychology, sociology, American studies, cultural studies, health sciences and management. 3 credits. (3 plus 0)

### **PSY 2510 Theories of Counseling**

*Prerequisite: PSY 1700.*

Introduces the historical and professional foundations of counseling as well as provides exposure to the process, skills of counseling and the specialties engaged in the practice of counseling. Specific focus given to the theories of counseling. 3 credits. (3 plus 0)

### **PSY 2520 Abnormal Psychology**

*Prerequisite: PSY 1700.*

Introduction to the fundamentals of abnormal behavior and the contemporary treatment protocols used for addressing these mental health problems. 3 credits. (3 plus 0)

### **PSY 2760 Theories of Personality**

*Prerequisite: PSY 1700.*

Introduction to the study of how individuals are influenced by enduring inner factors and the development of personality over the course of a lifetime. Topics include biological trait theories, behavioral and cognitive social theories, and psychodynamic theories. 3 credits. (3 plus 0)

### **PSY 2780 Social Psychology**

*Prerequisite: PSY 1700.*

A study of how thoughts, feelings, or behaviors of individuals are influenced by the actual, imagined, or implied presence of others. Topics include attitude formation and attitude change, prejudice and discrimination, cooperation and competition, affiliation, interpersonal attraction, aggression and violence, social perception, group influences and environmental influences on social behavior. 3 credits. (3 plus 0)

### **PSY 2990 Special Topics in Psychology**

*Prerequisite: PSY 1700*

Directed study in a special body of subject matter in psychology. May be repeated for additional credit. Variable credit.

### **PSY 3510 Biopsychology**

*Prerequisite: PSY 1700; BIO 1110*

Introduction to the study of mental processes and their effects on behavior. Measurement of biological variables which affect the quantitative or qualitative change of specific psychological or behavioral variables. 3 credits. (3 plus 0)

### **PSY 3520 Applied Psychology**

*Prerequisite: PSY 1700*

Exploration of the various roles and functions of professional psychologist through an examination of the theoretical and practical applications of careers in psychology. 3 credits. (3 plus 0)

### **PSY 3530 Sport Psychology**

*Prerequisite: PSY 1700*

Introduction to how psychological factors affect individual and team physical performance. How participation in sport and exercise affect psychological development and health and well-being of the individual. 3 credits. (3 plus 0)

### **PSY 3730 Aging**

*Prerequisite: PSY 1700.*

Introduction to the process of aging, directed study in biological, psychological, and social factors affecting the elderly. 3 credits. (3 plus 0)

### **PSY 3750 Interviewing Strategies for Helpers**

*Prerequisite: PSY 2510*

Fundamental interviewing strategies and techniques used to assist others in addressing interpersonal issues. 3 credits. (3 plus 0)

### **PSY 3770 Assessment in Psychology**

*Prerequisite: MA 1025.*

The basic concepts, terminology, and principles of assessment applicable to human services counseling are considered, with an emphasis on both written and oral assessment techniques. 3 credits. (3 plus 0)

### **PSY 3780 Research Methods & Statistics**

*Prerequisites: PSY 1700; MA 2025 with grade C or better, junior standing.*

The principles, methods, and strategies useful in planning, designing, writing, and evaluating research studies in the behavioral sciences. Non-experimental research methods such as naturalistic observation, survey, correlation, field study, program evaluation and experimental research will be studied. Topics to be covered include

background research skills, hypothesis development, research methodology, descriptive statistics (using calculator or computer), and an introduction to probability. Additional topics include research designs, measurements, hypothesis testing, statistical significance, and the analysis of data. The use of computer statistical packages will be introduced. 3 credits. (3 plus 0)

### **PSY 4200 Senior Seminar in Psychology**

*Prerequisites: PSY 1750; PSY 3780; senior standing.*

Discussion and exploration of current topics in the field of psychology. Specific topics selected for study vary from year to year. An APA formatted research proposal with IRB approval and subsequent presentation is required. Emphasis on allowing students to research areas of specific interest. 3 credits. (3 plus 0)

### **PSY 4510 Learning and Cognition**

*Prerequisite: PSY 1700*

Contemporary perspectives and ideas about how human beings think and learn. Learning theory will be related to everyday practice through numerous examples which will emphasize meaningful learning and true understanding of the material. 3 credits. (3 plus 0)

### **PSY 4520 Advanced Abnormal Psychology**

*Prerequisite: PSY 2520; BIO 1110*

This advanced course builds on the student's understanding of abnormal behavior through the exploration of clinical case studies. The student also builds understanding of the diagnostic criteria necessary for labeling a psychological problem. Specific diagnostic features; subtypes and/or specifiers; recording procedures; associated features; specific culture, age and gender features; prevalence; course; familial pattern; and differential diagnosis also addressed. Students also exposed to clinical note preparation and treatment planning skills development. 3 credits. (3 plus 0)

### **PSY 4530 Health Psychology**

*Prerequisite: PSY 1700*

Surveys the psychological, social and behavioral factors related to physical health promotion and the role psychology plays in fostering positive health practices. The course covers health related topics that include stress and coping; cardiovascular disease; chronic pain management and arthritis; cancer; risky health practices (smoking, substance use) as well as a look at communicable and chronic diseases. Community access to health care systems and health related policies are also addressed. 3 credits. (3 plus 0)

### **PSY 4540 Forensic Psychology**

*Prerequisite: PSY 1700; CJ 1100*

Introduction to the practice of forensic psychology. Exploration of how forensic psychologists aid the legal system by serving as expert witnesses, criminal profilers, and trial consultants for jury selection and child custody hearings. 3 credits. (3 plus 0)

## **SCIENCE**

### **SCI 2000 Contemporary Issues in Science**

*Prerequisites: MA 1025; ENG 1250*

An introduction to the fundamentals of science as it applies to various contemporary issues. This course introduces the nature of science and the scientific method, and deals in depth with the nature of sources and evaluation of the credibility of sources. Specific topics may vary, but may include the following: food and energy; organic compounds in every-day life; greenhouse gases; green chemistry; laws of thermodynamics; energy production, transportation, and usage; electricity; fossil fuels; renewable fuels; nuclear energy; alternative energy sources. 3 credits. (3 plus 0)

## **SOCIAL SCIENCE**

### **SS 2200 Macroeconomics**

*Prerequisite: MA 1025 or concurrent enrollment.*

A study of the overall economic system with emphasis upon the gross national product, fiscal and monetary policy, the budget and banking. 3 credits. (3 plus 0)

### **SS 2210 Microeconomics**

*Prerequisite: MA 1025 or concurrent enrollment.*

A study of the economic system. Supply and demand, competition, pricing policies, wage and rent determination, and government regulation. 3 credits. (3 plus 0)

### **SS 2720 Group Dynamics**

Psychology of groups; normal and developmental growth; development of leadership styles, emphasis on assessment of group change. 3 credits. (3 plus 0)

### **SS 2800 Introduction to Sociology**

An introduction to the scientific study of human society and social behavior, this course examines sociological theories of human behavior, cultural patterns, and social change. Emphasis upon the influence of social and cultural forces on personal experience and social behavior in reference to the postindustrial society. 3 credits. (3 plus 0)

### **SS 2810 Social Problems**

*Prerequisite: SS 2800.*

Analysis of problem conditions in modern society in areas such as the family, economic order, crime, civil rights, ethnic and religious tensions, and the environment. 3 credits. (3 plus 0)

### **SS 2820 Marriage and the Family**

*Prerequisite: SS 2800*

Analysis of problem conditions in modern society in areas such as the family, economic order, crime, civil rights, ethnic, and religious tensions. 3 credits. (3 plus 0)

### **SS 2830 Applied Social Problems**

An introduction to community development, community building, service learning and cultural diversity through an in-tense volunteer experience, personal reflection, and focused research. 3 credits. (3 plus 0)

### **SS 2850 Conflict Resolution**

Conflict resolution in both personal and professional settings. Why we have conflicts, and on what levels. The course examines ways to analyze conflict and how to develop mutually beneficial resolutions by using a range of conflict resolution methods and techniques. Current and popular theoretical approaches also are examined. 3 credits. (3 plus 0)

### **SS 2900 Community & Social Movements**

*Prerequisite: SS 2800.*

This course provides a review of community and social movements including historical perspectives. The course will help students connect with community work and social movements established to accomplish social change in our society. An examination of the individual's role as social advocate and effective citizen will be completed. 3 credits. (3 plus 0)

### **SS 2990 Special Topics in Social Sciences**

*Prerequisite: Permission of the dean of general studies.*

Directed study of a special body of subject matter in the field of social sciences. This course may be repeated for additional credit. Variable credit.

# GRADUATE PROGRAMS

## Degree Options

All of Indiana Tech's graduate degrees take advantage of the Accelerated Degree Program to provide the necessary skills to excel in business. The following graduate degrees are available:

- › Master of Business Administration (MBA)
  - Accounting
  - Health Care Management
  - Human Resources
  - Management
  - Marketing
- › Master of Science in Engineering Management (MSE)
- › Master of Science in Management (MSM)
- › Master of Science in Organizational Leadership (MSOL)
- › Master of Science in Police Administration
- › MBA/MSM Dual Degree
- › MBA/MSE Dual Degree
- › Ph.D. in Global Leadership
  - Organizational Management
  - Academic Administration

The specific course requirements for each degree are outlined on the following pages.

### Master of Business Administration

The MBA focuses on examining an organization from a functional strategic approach. This approach includes emphasis on management, marketing, finance, accounting, and economic principles in both the domestic and international marketplaces. MBA students can become immersed in a concentration that best fits their goals. Concentrations are offered in accounting, health care management, human resources, management, and marketing.

#### Prerequisites

Students must have completed the following courses with a grade of C or better:

- › Principles of Management
- › Principles of Marketing
- › Accounting Principles
- › Corporate Finance

Students may have dual concentrations; however, they must complete the required courses for each concentration.

# Master of Business Administration (MBA)

## — Accounting

The accounting concentration of the Master of Business Administration is uniquely designed to promote career advancement for accounting professionals. Through a partnership with Becker CPA Review, Indiana Tech offers graduate students the opportunity to earn credit toward an MBA while preparing for the CPA exam.

### Core Courses

MBA 5000	Executive Management (first course) .....	3
MBA 5210	Business Statistics.....	3
MBA 5220	Marketing Management .....	3

### Also Required

MBA 5110	Management Information Systems .....	3
MBA 5120	Managerial Economics .....	3
MBA 5200	Financial Management .....	3
MBA 5310	Business Ethics.....	3
MBA 5330	Business Law .....	3
MBA 7000	Business Policy & Strategy.....	3

### Accounting Concentration Courses

MBA 6800	Accounting Automation .....	3
MBA 6810	Communication for Accountants .....	3
MBA 6820	Fraud Examination .....	3
MBA 6860	Becker CPA Review .....	6

**Total Credits..... 42**

\* MBA 6860 is the last course in the program for students in the accounting concentration. The student’s grade is based upon the number of “Certificates of Continuing Help” received by the Becker CPA review. Four certificates is an A. Three certificates is a B. Two certificates is a C. One or none is an F.

# Master of Business Administration (MBA) — Health Care Management

The requirements for the health care management concentration are listed below. This concentration is only available online.

## Core Courses

MBA 5000	Executive Management.....	3
MBA 5130	Managerial Accounting.....	3
MBA 5210	Business Statistics.....	3
MBA 5220	Marketing Management .....	3

## Also Required

HCM 5300	Health Care Law .....	3
MBA 5110	Management Information Systems .....	3
MBA 5120	Managerial Economics .....	3
MBA 5200	Financial Management .....	3
MBA 5310	Business Ethics.....	3
MBA 7000	Business Policy and Strategy.....	3

## Concentration Courses

HCM 5000	Introduction to Health Care Management.....	3
HCM 6200	Health Care Operations and Quality.....	3
HCM 6300	Health Care Policy and Ethics .....	3
HCM 6400	Health Care Finance .....	3

**Total Credits..... 42**

# Master of Business Administration (MBA)

## — Human Resources

The Master of Business Administration in human resources is designed to provide students with an advanced and in-depth knowledge of managing employees, an organization’s human resources. In addition to students being able to choose among several human resource courses, the curriculum is augmented with other advanced business courses.

### Core Courses

MBA 5000	Executive Management .....	3
MBA 5130	Managerial Accounting.....	3
MBA 5210	Business Statistics.....	3
MBA 5220	Marketing Management.....	3

### Also Required

MBA 5110	Management Information Systems .....	3
MBA 5120	Managerial Economics .....	3
MBA 5200	Financial Management .....	3
MBA 5310	Business Ethics.....	3
MBA 5330	Business Law .....	3
Students in the human resources concentration may substitute MBA 6600 for MBA 5330		
MBA 7000	Business Policy & Strategy.....	3

### Human Resources Concentration

MBA 5600	Human Resource Management .....	3
MBA 6200	Performance Management.....	3

**Electives..... 6**

**Total Credits..... 42**

# Master of Business Administration (MBA)

## — Management

The Master of Business Administration in management examines the entire business organization from a functional, strategic approach. Students may choose among several management courses to meet their desired objectives. Additionally, the curriculum is augmented with other advanced business courses.

### Core Courses

MBA 5000	Executive Management .....	3
MBA 5130	Managerial Accounting.....	3
MBA 5210	Business Statistics.....	3
MBA 5220	Marketing Management.....	3

### Also Required

MBA 5110	Management Information Systems .....	3
MBA 5120	Managerial Economics .....	3
MBA 5200	Financial Management .....	3
MBA 5310	Business Ethics.....	3
MBA 5330	Business Law .....	3
Students in the human resources concentration may substitute MBA 6600 for MBA 5330		
MBA 7000	Business Policy & Strategy.....	3

### Management Concentration

MBA 5300	Organizational Behavior .....	3
MBA 5340	Operations Management .....	3

**Electives..... 6**

**Total Credits..... 42**

# Master of Business Administration (MBA)

## — Marketing

The Master of Business Administration in marketing is designed to provide the student with an advanced and in-depth knowledge of marketing. The graduate will be able to choose among several marketing courses to meet their desired objectives. The marketing curriculum is augmented with other advanced business courses.

### Core Courses

MBA 5000	Executive Management .....	3
MBA 5130	Managerial Accounting .....	3
MBA 5210	Business Statistics .....	3
MBA 5220	Marketing Management .....	3

### Also Required

MBA 5110	Management Information Systems .....	3
MBA 5120	Managerial Economics .....	3
MBA 5200	Financial Management .....	3
MBA 5310	Business Ethics .....	3
MBA 5330	Business Law .....	3
Students in the human resources concentration may substitute MBA 6600 for MBA 5330		
MBA 7000	Business Policy & Strategy .....	3

### Marketing Concentration

MBA 6420	Marketing Research .....	3
MBA 6400	International Marketing .....	3

**Electives..... 6**

**Total Credits..... 42**

# Master of Science in Engineering Management (MSE)

The Master of Science in Engineering Management is designed for professionals with a technical background who are preparing to assume more managerial responsibilities, or who are broadening their knowledge base. Topics such as quality assurance, lean manufacturing, and enterprise resource planning are complemented with the study of financial management, project management, managerial economics, and more. This integration creates an educational experience which can be thought of as an MBA with a technical focus.

### MSE Courses

MSE 5000	Intro. to Engineering Management.....	3
MSE 6010	Environmental Health and Safety.....	3
MSE 6020	Designing for Lean Manufacturing.....	3
MSE 6030	Enterprise Resource Planning.....	3
MSE 6040	Computer Integrated Manufacturing.....	3
MSE 6050	Statistical Methods in Quality Assurance.....	3
MSE 6060	Legal Implications for the Eng. Manager.....	3
MSE 7000	Adv. Topics in Engineering Mgmt .....	3

### MBA Courses

MBA 5110	Management Information Systems .....	3
MBA 5120	Managerial Economics .....	3
MBA 5130	Managerial Accounting .....	3
MBA 5200	Financial Management .....	3
MBA 5220	Marketing Management .....	3
MBA 6310	Project Management .....	3

**Total Credits..... 42**

Elective courses are any graduate-level business courses offered by the university or accepted as transfer credit.

# MBA/MSE Dual Degree

The dual MBA/MSE degree program is designed for the individual with a technical background who wants to gain an understanding of the core functional areas of business. A student may take the HR, management, or marketing concentrations in the MBA. Courses marked with an asterisk (\*) require TEAM enrollment.

## MSE Courses

MSE 5000	Introduction to Engineering Management .....	3
MSE 6010	Environmental Health and Safety.....	3
MSE 6020	Designing for Lean Manufacturing.....	3
MSE 6030	Enterprise Resource Planning.....	3
MSE 6040	Computer Integrated Manufacturing.....	3
MSE 6050	Statistical Methods in Quality Assurance.....	3
MSE 6060	Legal Implications for the Engineering Manager.....	3
MSE 7000	Advanced Topics in Engineering.....	3

## MBA Courses

MBA 5110	Management Information Systems .....	3
MBA 5120	Managerial Economics .....	3
MBA 5130	Managerial Accounting .....	3
MBA 5200	Financial Management .....	3
MBA 5220	Marketing Management .....	3
MBA 5310	Business Ethics.....	3
MBA 6310	Project Management .....	3
MBA 7000	Business Policy and Strategy.....	3

<b>Concentration Classes</b> .....	<b>6</b>
<b>Electives</b> .....	<b>6</b>
<b>Total Credits</b> .....	<b>60</b>

## Human Resources Concentration

MBA 5600	Human Resource Management .....	3
MBA 6200	Performance Management.....	3

## Management Concentration

MBA 5300	Organizational Behavior .....	3
MBA 5340	Operations Management .....	3

## Marketing Concentration

MBA 6420	Marketing Research.....	3
MBA 6400	International Marketing.....	3

# Master of Science in Management (MSM)

The Master of Science in Management develops expertise in using qualitative tools in decision making and problem solving. Graduates of the program are equipped with knowledge of leadership processes; total quality and change management; work motivation, empowerment, and organizational culture; financial decision-making and general management practices.

## Core Courses

MBA 5000	Executive Management.....	3
MSM 5100	Qualitative Decision-Making.....	3
MSM 5125	Accounting & Finance for Managers.....	3

## Also Required

MBA 5300	Organizational Behavior .....	3
MBA 5310	Business Ethics.....	3
MBA 5320	Quality Management.....	3
MBA 5600	Human Resource Management .....	3
MBA 6600	Employment Law.....	3
MSM 5350	Customer Relationship Management .....	3
MSM 5400	Negotiation Skills .....	3
MSM 6400	Managing Change.....	3
MSM 7200	Applied Management Project .....	3

**Electives..... 6**

**Total Credits..... 42**

Elective courses are any graduate-level business courses offered by the university or accepted as transfer credit.

# MBA/MSM Dual Degree Program

The dual MBA/MSM degree program is designed for the individual who wants competency in both the leadership skills obtained within the MSM curriculum along with the solid business analysis and quantitative skills offered within the MBA program.

### Core Courses

MBA 5000	Executive Management .....	3
MBA 5130	Managerial Accounting .....	3
MBA 5210	Business Statistics.....	3
MBA 5220	Marketing Management .....	3

### Also Required

MBA 5110	Management Information Systems .....	3
MBA 5120	Managerial Economics .....	3
MBA 5200	Financial Management .....	3
MBA 5300	Organizational Behavior .....	3
MBA 5310	Business Ethics.....	3
MBA 5320	Quality Management.....	3
MBA 5340	Operations Management .....	3
MBA 5350	Customer Relationship Management .....	3
MBA 5600	Human Resource Management .....	3
MBA 5330	Business Law	
	or	
MBA 6600	Employment Law.....	3
MBA 7000	Business Policy & Strategy.....	3
MSM 5100	Qualitative Decision Making.....	3
MSM 5400	Negotiation Skills .....	3
MSM 6400	Managing Change.....	3

**Electives..... 6**

**Total Credits.....60**

Elective courses are any graduate-level business courses offered by the university or accepted as transfer credit.

# Master of Science in Organizational Leadership (MSOL)

The organizational leadership program provides students with the leadership competencies needed for middle management success in a variety of job families and functions. To fully develop the leadership skills of students, the program focuses on four key competency areas: operations and administrative competencies; human relations and interpersonal competencies; decision-making and critical thinking competencies; and communication competencies. To facilitate development of these competencies, courses marked with an asterisk (\*) must be taken in sequence as part of a Tracked Educational Adult Module (TEAM). Since each course builds upon the previous one, students cannot drop in or out of the TEAM at will. If you drop from a TEAM, you may have to wait until the next TEAM to re-register for classes. For additional information, please contact the Warrior Information Network. Please check the schedule for TEAM starting dates.

## Leadership Fundamentals

MBA 5310	Business Ethics.....	3
MSOL 5000	Leadership Styles & Leadership Dev.....	3
MSOL 6600	Leadership Prob. Anal. & Decision Making.....	3
MSOL 6700	Developing Human Capital.....	3

## Leading the Organization

MBA 5110	Management Information Systems.....	3
MSM 5500	Financial Concepts for Leaders.....	3
MSM 6400	Managing Change.....	3
MSOL 5400	Building Organizational Excellence.....	3

## Leadership Research and Strategy

MSOL 6800	Leading Strategy.....	3
MSOL 7400	Leadership Project I.....	3
MSOL 7500	Leadership Project II.....	3
MSOL 7600	Leadership Project III.....	3

<b>Total Credits.....</b>		<b>36</b>
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# Ph.D. in Global Leadership

The Ph.D. in Global Leadership will require a minimum of 60 credits of graduate coursework consisting of four program components as follows:

## I. Research Core (18 credits minimum)

RES 7000	Introduction to Research Methods.....	3
RES 7011	Research Critique .....	3
RES 7012	Research Design.....	3
RES 7013	Quantitative Methods of Research .....	3
RES 7014	Qualitative Methods of Research.....	3
RES 7015	Global Leadership Research.....	3

## II. Global Leadership Core (18 credits)

Choose 6 of the following:

LDS 7001	Leadership Theory & Research.....	3
LDS 7002	Leading in a Time of Change.....	3
LDS 7003	Communications in Global & Diverse Contexts .....	3
LDS 7004	Ethics, Governance & Social Responsibility.....	3
LDS 7005	Global Leadership Development .....	3
LDS 7006	Developing Human Capital .....	3
LDS 7007	Global Strategic Leadership .....	3

### III. Specialization: Select one (18 credits)

#### Organizational Management

OLM 7001	Organizational Behavior & Culture .....	3
OLM 7002	Marketing Theory & Research.....	3
OLM 7003	Service Science Management & Development .....	3
OLM 7004	Managing Innovation & the Learning Organization.....	3
OLM 7005	Managing for Financial Performance & Accountability .....	3
OLM 7006	Strategic Development of Multinational Organizations.....	3

#### Academic Administration

HEA 7001	Theories and Research in Academic Administration.....	3
HEA 7002	Higher Education Policy & Accountability.....	3
HEA 7003	Legal Issues and Responsibilities in Higher Education .....	3
HEA 7004	Managing Financial Performance & Accountability.....	3
HEA 7005	Comparative Higher Education .....	3
HEA 7006	The Contemporary College Student.....	3

### IV. Dissertation (6 credits minimum)

RES 8001	Dissertation Research Seminar & Prospectus.....	3
RES 8002	Dissertation Proposal Development, Defense, & IRB Application ...	3
RES 8011	Continuous Development of the Qualifying Paper .....	1 to 6
RES 8022	Dissertation Completion .....	1 to 6

# Academic Information

## Graduate Admissions Requirements

The graduate program at the university is designed to serve the working professional adult student. The assumption of the university is that by working for a period of time prior to the pursuit of a graduate degree, the student has attained considerable knowledge, maturity, and discipline that is not common in younger students. These characteristics are essential for successful completion of the degree program; hence, they are incorporated into the admissions requirements. The admissions guidelines for the Graduate School are as follows:

- › Baccalaureate degree from an accredited institution
- › Minimum undergraduate GPA of 2.5
- › Two (2) years of significant work experience
- › Completion of the Graduate Division Application Package (e.g., application form, recommendations, etc.)

If the applicant does not meet the minimum work experience, the following criteria can be substituted:

- › Minimum undergraduate GPA of 2.5 plus
- › 200 times undergraduate GPA plus GMAT score must equal or exceed 1000 total points.

## Additional MBA Admissions Requirements

Additionally, all MBA students must have completed the following courses with a grade of C or better:

- › Principles of Management
- › Principles of Marketing
- › Accounting Principles
- › Corporate Finance

Students who do not meet the prerequisites should contact their admissions representative to discuss the available alternatives. The admissions committee makes all admissions decisions. If the committee finds any deficiencies for admission, the committee, along with the graduate dean, will determine how the student may correct the deficiencies.

## MBA — Accounting Admissions Requirements

The following are requirements for an individual to be accepted into the MBA accounting concentration:

- › Student must have obtained a baccalaureate degree
- › Student must have completed at least 24 undergraduate credit hours in accounting.
- › Student must have completed at least 24 credit hours in business administration and economics courses, other than accounting. These courses can be at the undergraduate and/or graduate level.
- › The business courses may include up to 6 credits of business and tax law courses and up to 6 credits of computer science.
- › The accounting credits must include courses covering financial accounting, auditing, taxation, and managerial accounting.
- › The Indiana Board of Accountancy may change CPA requirements at any time. Contact your graduate advisor with any questions.

## MSE Admissions Requirements

To be admitted to the Master of Science in Engineering Management program, students must meet the following admission requirements:

- › The student must have obtained a bachelor of science in a technical field
- › The student must have a minimum cumulative undergraduate GPA of 2.5
- › The student must have completed at least one undergraduate accounting course, one marketing course and one finance course with a grade of C or better

## MSOL Admissions Requirements

To be admitted to the Master of Science in Organizational Leadership, students must meet the following requirements:

- › Minimum of three years work experience with an increasing level of supervisory responsibilities.
- › A bachelor's degree (in any field) from an accredited institution, with a cumulative grade point average of 2.50 or better.
- › Three letters of recommendation.
- › An essay that describes your personal leadership style and how it has shaped your career. The essay should include your expectations for the MSOL. Please note that the essay is one of the major components of the admission requirements. Essays should be 500 to 750 words, double-spaced, in a 12-point font.
- › A current resume

## MSM Admissions Requirements

All MSM students must have completed Principles of Management with a grade of C or better.

## MPA Admissions Requirements

- › An undergraduate GPA of at least 2.5
- › A bachelor's degree from a regionally accredited university in criminal justice or a related study area (psychology, sociology, etc). If the undergraduate degree is not related to criminal justice the applicant may petition the director of criminal justice for an exception. An exception may be granted if:
  - The applicant has relevant work experience in the field.
  - The applicant has completed significant criminal justice course work.
  - The applicant has completed the certificate program in law enforcement supervision at Indiana Tech
- › Three letters of recommendation. At least one of these recommendations must come from the student's current employer. Other recommendations should come from employers (current or former), former professors, or other professionals who can testify to the student's ability and preparedness for graduate work.
- › The Graduate Application Form

## Ph.D. Admissions Requirements

Admissions decisions for the Ph.D. in Global Leadership will be based on:

- › Completion of the Indiana Tech doctoral division application
- › Official transcripts of all previous undergraduate and graduate work including evidence of completion of a master's degree at a regionally accredited institution
- › Scores on one of the following admissions tests: GMAT, LSAT, GRE, MAT (Others may be considered at the request of the student to the program director.)
- › An original essay addressing the candidate's interest in the program and intended goals
- › A current résumé including educational record, employment history and relevant accomplishments, publications, presentations, and professional contributions
- › An interview to be scheduled upon receipt of all the above materials

## Graduate Transfer Credit

Students who have attended graduate classes at another regionally accredited college or university may transfer credit under the following guidelines:

- › Courses must be business-related with grades of B or better.
- › The number of credits to be transferred cannot exceed nine (9) credit hours.
- › An official transcript must be received by Indiana Tech
- › The institution at which the credit was earned must be regionally accredited or hold the appropriate international professional accreditation.
- › The prospective student must submit a course description and, if possible, a course syllabus.
- › Transfer credit is not accepted for MSOL courses.

### Ph.D. Transfer Credit

Credits may be transferred into the Ph.D. program in accordance with the following criteria:

- › A maximum of six graduate credit hours may be transferred from coursework applied to a completed master's degree.
- › A maximum of 12 graduate credit hours from a fully accredited graduate school may be transferred into the Ph.D. program (maximum of six of which were applied to a completed master's degree). Transfer credit will be awarded only for courses evaluated and found to be comparable in content to those which are part of the course of study.

Procedure for requesting transfer credit:

Requests for transfer credit should be directed in writing to the Ph.D. program director no later than during the first term of doctoral study. The requests must include: official transcript showing the course(s) for which transfer credit is requested and course description from the catalog or syllabus of the course.

### Graduation Requirements

To qualify for graduation from Indiana Tech, you must complete:

- › All necessary credit hours required for the degree.
- › Required coursework in all graduate classes at a minimum cumulative grade point average of 3.0 with no more than nine (9) credit hours of C work counting toward the degree.
- › Required coursework within seven (7) years after completing your first graduate class.
- › A petition for graduation when within 15 credits of completing courses.
- › All financial obligations to the university.

## Ph.D. Degree completion requirements

Successful completion of the Ph.D. in Global Leadership includes:

1. Meet the prerequisite for statistics competency (RES 6000 or equivalent)
2. Complete a minimum of 60 doctoral credit hours of coursework including 15 credit hours of research core, 21 credit hours of global leadership core, 18 credit hours of specialization, and a minimum of 6 credits of dissertation.
3. Maintain a cumulative GPA of 3.25 and a grade of C or higher in all coursework for the degree. Grades of C must be repeated. No more than two courses may be repeated and no course may be repeated more than once. Exceptions may be considered and must be requested by submitting a petition to the program director.
4. Complete the residency requirement.
5. Maintain continuous program enrollment of at least one course per semester. Students are eligible for up to one year leave of absence from study in the degree program.
6. Complete the degree within six calendar years from the date of the student's initial course start date. Students may request a one-year extension of this time requirement.
7. Prepare an acceptable qualifying paper.
8. Prepare and successfully defend (a) the dissertation proposal and (b) the dissertation.
9. Meet all financial, academic and other related obligations of Indiana Tech and the Ph.D. program.

## Computer Requirement

Students will be required to have access to a personal computer outside of the classroom for homework assignments. It is recommended that this computer be a Windows-based platform with Microsoft Office software. Other hardware and software may be incompatible with campus printers.



# GRADUATE COURSE DESCRIPTIONS

# HEALTH CARE MANAGEMENT

## **HCM 5000 Introduction to Health Care Management**

*Prerequisite: Core Courses.*

Focuses on the health care system of the United States. The student will explore the characteristics that make this system unique and complex. Students will be introduced to the evolution, financing, and administration of a variety of health care organizations. 3 credits.

## **HCM 5300 Health Care Law**

*Prerequisite: HCM 5000.*

Students will gain an understanding of the basic laws that govern health care and how they affect the delivery of health care services. Topics will include reimbursement law, malpractice, liability, HIPPA, patient/provider relationships, quality-of-life decision making, and licensure. 3 credits.

## **HCM 6200 Health Care Operations & Quality**

*Prerequisite: HCM 5000.*

Students will be introduced to the quality concepts that help improve operational processes that are part of the health care delivery system. Students will analyze different types of health care organizations to develop recommendations for improvement. 3 credits.

## **HCM 6300 Health Care Policy & Ethics**

*Prerequisite: HCM 5000.*

Students will examine public policy making in the health care sector. Students will learn the guiding principles of policy formulation and analysis and apply them to a range of health care issues. In addition, the course will focus on the major ethical issues facing health care providers, payers, and patients. 3 credits.

## **HCM 6400 Health Care Finance**

*Prerequisite: HCM 5000.*

Provides an overview of the techniques used in the financial management of health care organizations. Topics will include sources of health care funding, third party payment or reimbursement, the implications of uninsured patients, budgeting, and capital asset evaluation. 3 credits.

# MASTER OF BUSINESS ADMINISTRATION

## **MBA 5000 Executive Management**

*Prerequisite: First course in the program.*

A study of the executive management function in organizations. Emphasis will be given to the expectations of executive-level managers, including leadership, motivation, strategic thinking, and tools such as research skills, technological competence, and time management. 3 credits.

## **MBA 5110 Management Information Systems**

A study of information flows and information needs within organizations and technological responses to those needs. Attention will be given to the information needs of the full range of organizations from the very small firm, whose needs may be met with office suite software, to the largest multi-site organizations, which maintain information Intranets. Topics covered will include: business processes, data resources, information systems hardware and software, telecommunications, electronic enterprise, systems design. 3 credits.

## **MBA 5120 Managerial Economics**

*Prerequisite: MBA 5210.*

A review of economic tools in managerial decision-making. Demand analysis and forecasting, cost analysis, production function, market structures, and public sector analysis are covered. 3 credits.

## **MBA 5130 Managerial Accounting**

*Prerequisite: MBA 5000 or MSE 5000, for non-MBA accounting majors only.*

A study of accounting data used internally by business managers in directing the activities of manufacturing and service organizations. Topics include cost accumulation, budgeting, pricing, and the use of this information in the planning, control, and decision making activities. 3 credits.

## **MBA 5200 Financial Management**

*Prerequisite: MBA 5130.*

A study of the business organization's financial planning, problems of working capital management, capital budgeting, dividend policy, and comprehensive problems. 3 credits.

## **MBA 5210 Business Statistics**

*Prerequisite: MBA 5000 or MSE 5000.*

The application of mathematical and basic statistical methods to decision-making in all organizations. A computer software package will be used as a comprehensive hands-on reference tool to analyze data and to present findings. 3 credits.

### **MBA 5220 Marketing Management**

*Prerequisite: MBA 5000 or MSE 5000.*

A study of strategic market analysis and planning. Specific emphasis will be given to market situation analysis, strategy and program development, and implementation and control of a marketing plan. 3 credits.

### **MBA 5300 Organizational Behavior**

*Prerequisite: MBA 5000.*

A study of behavior in corporate and organizational settings, including motivation, leadership, communication and power. Understanding contextual and environmental issues will be emphasized. Current and popular theoretical approaches will be examined. 3 credits.

### **MBA 5310 Business Ethics**

In this course students learn about the complex responsibilities facing business leaders today. Through cases about difficult managerial decisions, the course examines the legal, ethical and economic responsibility of corporate leaders. It also teaches students about management and governance systems leaders can use to promote responsible conduct by companies and their employees, and shows how personal values can play a critical role in effective leadership. 3 credits.

### **MBA 5320 Quality Management**

*Prerequisite: MBA 5000.*

An integrated study in the design and implementation of quality management tools including relevant problem-solving methods and behavioral models from a process-oriented perspective. 3 credits.

### **MBA 5330 Business Law**

*Prerequisite: MBA 5000.*

This course examines business law from the perspective of the professional (non-legal) manager. The course examines fundamental legal concepts and terminology, providing a basic foundation in civil procedure, and furnishing a substantive analysis of business torts, product liability, negligence, contract law, commercial law and the Uniform Commercial Code (UCC), debtor/creditor law, bankruptcy law, administrative law, alternative dispute resolution, and the litigation process. 3 credits.

### **MBA 5340 Operations Management**

*Prerequisites: MBA 5000; MBA 5210.*

This course examines the tools and techniques used by operations managers to make strategic and tactical decisions for their organizations. This course also focuses on the design, management, and improvement of operations activities for the production of goods and services. 3 credits.

### **MBA 5600 Human Resource Management**

*Prerequisite: MBA 5000.*

A study of the following key areas of HR: management practices, selection and placement, training and development, compensation and benefits, employee and labor relations, health/safety and security, and international HR issues. The Society for Human Resource Management (SHRM) Learning System will be utilized to facilitate the learning process required in the key HR areas. 3 credits.

### **MBA 6200 Performance Management**

*Prerequisite: MBA 5000.*

This course is a study in performance management as a continuous process of identifying, measuring, and developing the performance of individuals and teams and aligning performance with the strategic goals of the organization. Performance management systems are described as key tools to transform people's talent and motivation into a strategic organizational advantage. In addition, performance management is discussed as an integral part of all organizational units and not the domain of the HR function only. 3 credits.

### **MBA 6210 Labor Relations**

*Prerequisite: MBA 5600.*

This course is a study of industrial relations and the labor-management relations function of the modern work organization. The course examines problems, strategies, and policies of management interactions with formal and informal labor organizations. Labor legislation, collective bargaining, productivity analysis, and arbitration are stressed, with emphasis on negotiating strategies and techniques. Some time is also devoted to alternative dispute resolution as well as current trends in the labor movement. 3 credits.

### **MBA 6220 Compensation Management**

*Prerequisite: MBA 5600.*

This course is a study of the strategic approach for motivating human performance in organizations through a total compensation system. The focus of the course will be on a blending of compensation management theory and trends with specific strategies regarding creating a corporate compensation system. Theoretical models from economics, psychology, and sociology are integrated in analyses of issues of wage structuring, the design of incentives, and wage level. Practical exercises in the design of compensation systems are employed. 3 credits.

### **MBA 6310 Project Management**

*Prerequisites: MBA or MSE 5000; MBA 5120; MBA 5200.*

A study of effective project planning and management. Topics covered include: project goals and objectives, feasibility study including estimation of completion times and costs, evaluation and review, incentives, and quantitative analysis. Case studies and project management software will be used extensively. 3 credits.

### **MBA 6400 International Marketing**

*Prerequisite: MBA 5220.*

This course focuses upon the four decision areas of marketing: product decisions, pricing decisions, promotion decisions, and distribution decisions in a global context. Emphasis will be placed upon a whole-strategy approach to entering global markets. The mechanics of import/export will also be addressed. 3 credits.

### **MBA 6420 Marketing Research**

*Prerequisite: MBA 5220.*

A study of the generation, organization, interpretation, and use of marketing information in the business enterprise. The strategic role of marketing information is emphasized. Topics covered include: sources of information, research design and implementation, hypothesis testing, and problem-solving/decision-making. 3 credits.

### **MBA 6430 Professional Selling & Sales Force Management**

*Prerequisite: MBA 5220.*

An exploration of the knowledge, tactics and strategies for building and sustaining a contemporary sales organization. This study enables students to develop personal selling skills as well as the knowledge for managing a sales force. The management issues discussed in this course include hiring, training, and motivating salespersons as well as sales forecasting, planning and sales force organization. 3 credits.

### **MBA 6440 Advertising & Promotion Management**

*Prerequisite: MBA 5220.*

Companies of all sizes face challenging decisions on how to reach prospects and retain their current customer base. The ever-changing economy, predicting and meeting consumer demands, the growth of ethnic markets, emerging technologies and the changing demographics are issues that companies face when advertising and promoting their product. Prior knowledge in market research will enable you to implement the key advertising principles and practices while providing you with the knowledge on how IMC (integrated marketing communication) plays a critical role in building customer relationships and brands. 3 credits.

### **MBA 6490 Special Topics in Marketing**

*Prerequisite: MBA 5220.*

Directed study of a special body of subject matter in the field of marketing. 3 credits. This course may be repeated for additional credit.

### **MBA 6500 Small Business Management**

*Prerequisites: MBA 5200; MBA 5220.*

A study of the smaller business enterprise and the special management issues and challenges faced by the proprietor/entrepreneur. Emphasis will be given to problem-solving and decision-making in the major functional areas common to small enterprises. Case studies will be used. 3 credits.

### **MBA 6600 Employment Law**

*Prerequisite: MBA 5600.*

A review of the major regulatory influences that affect human resource management. The regulatory focus will include civil rights, compensation and benefits, employee health and safety, along with labor relations legislation. 3 credits.

### **MBA 6610 Seminar in Human Resources**

Students will attend the National Convention for the Society of Human Resource Management (SHRM). This course is a capstone event that requires professional membership in the SHRM and the opportunity to become professionally certified. Most issues addressed at the conference will be globally related and will include: sexual harassment, compensation planning, disabilities, flexible workplaces, global education, legal perspectives, along with approximately 100 other topics. In addition, the networking and the trade show are spectacular conference events. 3 credits.

### **MBA 6690 Special Topics in Human Resources**

*Prerequisite: MBA 5600.*

Directed study of a special body of subject matter in the field of human resources. 3 credits. This course may be repeated for additional credit.

### **MBA 6700 E-Business Technology**

*Prerequisite: MBA 5110.*

This course gives an overview of the technologies relevant to electronic business including strategic planning issues such as operating systems, networking, enterprise resource planning, supply chain management, computer security, electronic transaction processing, and other e-business issues. After completing this course, students should be able to understand the functions of the technologies that support e-business. 3 credits.

### **MBA 6800 Accounting Automation**

*Prerequisite: MBA 5130 or MBA accounting major.*

The objectives of this course are: (1) to present and integrate accounting principles in such a way that no prior knowledge of computerized accounting is required; (2) to provide a hands-on approach to learning how modern computerized automated accounting systems function; and (3) to provide knowledge and hands-on experience in integrating accounting with other business applications such as spreadsheets and word processors. 3 credits.

### **MBA 6810 Communication for Accountants**

*Prerequisite: MBA 5130 or MBA accounting major.*

This course is designed for MBA accounting majors to acquire and practice the skills for effective CPA/client communications and to apply these skills during the written portions of the computer-based CPA exam. Emphasis will be placed on AICPA criteria of coherent organization, conciseness, clarity, responsiveness to questions, appropriateness to readers, and use of Standard English. Assignments will include CPA/client communications such as Letters of Engagement, communicating results of accounting reviews, accounting opinions, and notes to financial statements. 3 credits.

### **MBA 6820 Fraud Examination**

*Prerequisite: MBA 5130 or MBA accounting major.*

This course will emphasize the conduct of fraud examinations, including a discussion of specific procedures used in forensic accounting examinations and the reasoning behind the use of these procedures. Detection, investigation, and prevention of specific types of fraud committed against organizations and individuals. 3 credits.

### **MBA 6860 Becker Review**

*Prerequisite: At least 36 credits.*

Becker Review - A four-part review course designed to prepare the student to sit for the online CPA Exam. Content: 1) Financial Accounting and Reporting: covers general accounting concepts tested in this part of the CPA Exam, including GAAP (Generally Accepted Accounting Principles) for business enterprises, not-for-profit organizations, and governmental entities. Addresses the necessary application skills. 2) Auditing and Attestation: Covers auditing practices and the required attestation as tested on this part of the CPA Exam. Includes auditing procedures, GAAS (Generally Accepted Auditing Standards), and other related attest engagements. Addresses the skills needed for application, thus moving from theory to practice. 3) Business Environment and Concepts: Covers general business related topics as tested in this part of the CPA Exam, including knowledge of general business environment and business concepts that candidates must know in order to understand the underlying business reasons for and accounting implications of business transactions. Addresses the skills needed to apply that knowledge. 4) Regulation: Covers regulatory issues, including federal taxation, ethics, professional and legal responsibilities, and business law. Addresses essential skills needed to apply this knowledge. 6 credits.

### **MBA 7000 Business Policy & Strategy**

*Prerequisite: At least 36 credits, core courses, MBA 5200.*

Enrollment requires advisor's approval. A review of the applied research for managerial planning decisions and actions that assist in determining the long-run performance of organizations. Emphasis is placed on the process of strategy formulation, implementation, evaluation, and control for organizations of all sizes. 3 credits.

# MASTER OF SCIENCE IN ENGINEERING MANAGEMENT

## **MSE 5000 Introduction to Engineering Management**

An overview of the field of engineering management including, technical, management and integrated issues. Tools helpful throughout the program, such as research skills, will be introduced. The first course in the program. 3 credits.

## **MSE 6010 Environmental Health & Safety**

*Prerequisite: MBA 5000 or MSE 5000.*

An introduction to the state and federal regulations for safety and environmental compliance. This course also covers ISO standards for environmental health and safety. Students will learn to identify how standards apply to various industries and will apply these skills in performing an audit to determine whether operations conform to the standards. 3 credits.

## **MSE 6020 Designing for Lean Manufacturing**

*Prerequisite: MBA 5000 or MSE 5000.*

A study of the principles and practices necessary to establish/maintain a lean operation. Concepts covered include: theory of constraints, Takt time, pull systems, lean accounting, value stream mapping, waste free manufacturing, workplace organization, quick change-over, just-in-time, and mistake-proofing. Through hands-on exercises, students will learn to apply these concepts in real-world situations. 3 credits.

## **MSE 6030 Enterprise Resource Planning**

*Prerequisite: MBA 5000 or MSE 5000.*

Explores the relationship of existing and emerging processes and technologies to manufacturing strategy and supply chain-related functions. This course addresses: aligning resources with the strategic plan, configuring and integrating operating processes to support the strategic plan, and implementing change. Concepts include supplier relationship management (SRM), strategic sourcing, throughput supply chain measurements such as inventory dollar days and throughput dollar days, product life cycle management (PLM), and customer relationship management (CRM). 3 credits.

## **MSE 6040 Computer Integrated Manufacturing**

*Prerequisite: MBA 5000 or MSE 5000*

Integration of facilities (machines tools, robotics) and the automation protocols required in the implementation of computer integrated manufacturing are studied. Specific concepts will include concurrent engineering, rapid prototyping, interfaces between computer-aided design (CAD) and computer-aided manufacturing systems (CAM), and control of manufacturing systems: numerical control (NC) and computer numerical control (CNC); programmable logic controller (PLC); computer aided process planning (CAPP) and manufacturing scheduling. 3 credits.

### **MSE 6050 Statistical Methods in Quality Assurance**

*Prerequisite: MBA 5000 or MSE 5000.*

The quantitative aspects of quality are studied, such as control charts, process capability, reliability, and design of experiments. 3 credits.

### **MSE 6060 Legal Implications for Engineering Managers**

*Prerequisite: MBA 5000 or MSE 5000.*

A study of patent law, product liability, labor law and other legislation relevant to the engineering discipline. 3 credits.

### **MSE 7000 Advanced Topics in Engineering Management**

Integrates the elements of engineering management in a capstone, project-based environment. Last course of the program. 3 credits.

## **MASTER OF SCIENCE IN MANAGEMENT**

### **MSM 5100 Qualitative Decision-Making**

*Prerequisite: MBA 5000.*

This course will aid the student in using qualitative methods to identify the root cause of problems in business, evaluate alternative responses to these problems, and propose solutions. Emphasis is placed on the application of qualitative research methods to specific business problems and managerial decision-making. The course introduces methods that will be used to collect and interpret data for the applied management project capstone course (e.g., surveying, interviewing, and conducting focus groups). 3 credits.

### **MSM 5125 Accounting & Finance for Managers**

*Prerequisite: MBA 5000.*

The course touches on the planning and control responsibility of managers and surveys the acquisition, analysis, and reporting of accounting information. The course also focuses on impact of financial data on effective management decision-making. The links between finance and strategic planning and implications for the overall health and success of the organization are explored. 3 credits.

### **MSM 5350 Customer Relationship Management**

*Prerequisite: MBA 5000.*

Students will analyze organizations to develop effective strategies for customer relationship management. Students will evaluate customer touch points to improve customer service and build customer loyalty. Students will develop models to identify and measure individual perceptions to determine real customer needs. 3 credits.

### **MSM 5400 Negotiation Skills**

*Prerequisite: MBA 5000.*

Introduces the process of mutual gain by developing long-term relationships with negotiation partners. It will concentrate on strategies that are successful in business and will cover topics such as: separating the problem from the person, invention of options, and best alternatives. The course will utilize exercises and simulations. 3 credits.

### **MSM 6400 Managing Change**

*Prerequisite: MBA 5000.*

This course examines the role of change in organizations. A theoretical background in organization development will be introduced in tandem with practical skills and knowledge of change management. Students will define change, analyze factors that affect change, and learn how to effectively facilitate change in their organizations. 3 credits.

### **MSM 7200 Applied Management Project**

*Prerequisites: MSM 5100; MSM 5125; MSM 6400.*

This reality-based capstone course requires the student to synthesize and integrate the theoretical and practical knowledge that has been learned from prerequisite courses in the MSM curriculum. The completion of this course includes one of two tracks: an applied company project or an academic “mini-thesis.” Students will design and implement projects that focus on real-world problems. Students may work on problems within their own companies, organizations to which they belong, or organizations with which the university has a relationship (e.g., alumni companies). As a second option, the student may choose an academic “mini-thesis.” The instructor must approve the subject matter of the project. 3 credits.

## **MASTER OF SCIENCE IN ORGANIZATIONAL LEADERSHIP**

### **MSOL 5000 Leadership Styles & Development**

This course provides a comprehensive analysis of major leadership theories and models. This exploration and assessment of personal leadership style and leadership dimensions leads to a final course outcome of a leadership journey assessment and action plan for each student. 3 credits.

### **MSOL 5400 Building Organizational Change**

Achieving excellence in a variety of mission-critical dimensions is critical for all organizations in today's competitive global economy. A comprehensive review of well researched theories and practitioner models are presented in this course including issues related to knowledge management, quality management, innovation management and the development of high performing teams and cultures. The impact of positive psychology on organizational excellence and a global perspective are also explored. 3 credits.

### **MSOL 5500 Financial Concepts for Leaders**

This course provides an overview of the financial concepts that are necessary for responsible fiscal management of an organization. This course also focuses on impact of financial data on effective management and decision-making. The links between finance and strategic planning and implications for overall health and success of the organization are explored. 3 credits.

### **MSOL 6600 Leadership Problem Analysis and Decision Making**

Research indicates the daily activities of leaders and managers focuses largely on problem analysis and decision making. This course provides a thorough understanding of the fundamental models, tactics and tools of this critical leadership competency. Core topics include critical thinking, problem analysis and decision support tools and techniques, and the basics of project management. The role of the leader in group decision making, conflict resolution and negotiation strategy is also reviewed. 3 credits.

### **MSOL 6700 Developing Human Capital**

Contemporary management literature emphasizes the importance of human capital as organizations strive to create a competitive advantage in today's knowledge and service economies. This course provides an in-depth review of models and strategies of human capital development including integrated talent management, individual and management development and competency modeling. Strategic human resources and a global perspective on human capital development are also examined. 3 credits.

### **MSOL 6800 Leading Strategy-Analysis, Planning, and Implementation**

*Prerequisites: MSOL 5400, MSOL 6700.*

An organization is able to compete more effectively when there is a shared understanding among the leaders and team members regarding the strategic direction and the requirements needed to achieve organizational goals. This course provides a comprehensive understanding of various theoretical perspectives on strategy and strategic planning as well as practitioner models used in organizations. The critical role of the leader in the strategic planning process is also evaluated. 3 credits.

### **MSOL 7400 Leadership Project I**

*Prerequisites: MSOL 5400, MSOL 6700.*

This is the first course in a three-course capstone sequence. This sequence of courses provides students with an opportunity to explore organizational issues in-depth through original research and communicate results in a graduate level environment. In this first course, having the theoretical and practical knowledge learned throughout the organizational leadership curriculum, students will develop the initial sections of the project (Abstract, Introduction, and Review of Related Literature). This course should be taken in the last half of the program. 3 credits.

### **MSOL 7500 Leadership Project II**

*Prerequisites: MSOL 7400.*

This is the second course in a three-course sequence and is a continuation of MSOL 7400. Students will go through the IRB (Institutional Review Board) process and add the Design & Methodology section to the project started in the previous course. 3 credits.

### **MSOL 7600 Leadership Project III**

*Prerequisites: MSOL 7500.*

This is the third course in a three-course sequence and is a continuation of MSOL 7500. Students will complete the project by adding the Findings, Conclusions, and Recommendations sections. 3 credits.

## **PH.D. IN GLOBAL LEADERSHIP**

### **HEA 7001 Theories & Research in Academic Leadership**

Critically analyze theories, research and best practices about academic leadership and culture employed by individuals and organizations in higher education in the United States and globally. How culture, national and international politics, and institutional mission inform higher education leadership is examined. Mission, vision and function of public, private, not for profit and for profit colleges and universities; leadership roles; governance functions including shared governance; union and non-union organizations; relationships with internal and external constituencies; problems of practice and power will be analyzed. 3 credits.

### **HEA 7002 Higher Education Policy & Accountability**

Policy and issues in higher education. Analysis of public expectations of higher education including accountability for student learning and transparency of operating functions. Contemporary public policy issues such as access, affordability, affirmative action, funding for scientific research are analyzed. Practices in accreditation, relationships among institutions to maximize opportunities for students and to provide diverse experiences in order to be prepared to enter the global society, and strategies to adapt to expanding reporting requirements will be compared and critically analyzed to determine best practices. 3 credits.

### **HEA 7003 Legal Issues in Higher Education**

Higher education legal processes, rights, responsibilities, duties and liabilities of faculty, administrators, and students within the context of higher education. Topics such as academic freedom, affirmative action, free speech, disability rights and access/use of electronically accessed information will be analyzed. Studies from constitutional, statutory, and case law will be addressed. 3 credits.

### **HEA 7004 Higher Education Finance & Resource Management**

The acquisition and allocation of funds and resources in higher education are studied. Sources and methods of securing and managing funds. Design and leadership of budgeting processes to address the institution's strategic planning processes and linkage to mission and purposes. Financial formulas to determine institutional viability. Strategies to manage physical, technology, human, and financial resources to assure continuity. 3 credits.

### **HEA 7005 Comparative Higher Education**

Comparative study of current trends in higher education in the United States and globally including curricular models, delivery methods, cultural influences and implications; global institutional partnerships; governmental involvement, accountability and reporting requirements. 3 credits.

### **HEA 7006 The Contemporary College Student**

Intellectual, social, psychological, and cultural contexts of the student experience. Leadership role in meeting student and societal expectations for integrated learning and social experiences. Providing appropriate and high quality experiences to students of varying abilities, needs and expectations. 3 credits.

### **LDS 7001 Leadership Theory & Research**

A foundational course in the critical analysis of seminal theoretical and empirical leadership theories, research and best practices. The concepts and dimensions of leadership are evaluated from the early trait and behavioral theories to the more recent theories which emphasize transformational and servant leadership models. Ethics and morality in leadership decision-making and case studies that examine emerging leadership situations are also analyzed. 3 credits.

### **LDS 7002 Leading in a Time of Change**

Literature and best practices related to the emerging roles of the leader as an agent of change are examined. Theories and models of change management are evaluated including organizational learning, organizational development, appreciative inquiry, sense-making and contingency approaches. Also examined are forces for change, diagnosis for change, visioning, resistance to change, the recipients of change, and consolidating change. 3 credits.

### **LDS 7003 Communications in Global & Diverse Contexts**

Communications literature and best practices are analyzed to understand and maximize human interaction in global and diverse contexts. Effective communication for various leadership roles is examined including interpersonal, small group, organizational, and public situations. Skills to develop intercultural competence and evaluating communication barriers that prevent the understanding of a leader's message are explored. 3 credits.

### **LDS 7004 Ethics, Governance & Social Responsibility**

Ethical theories and research are examined, along with professional codes of conduct and best practices for effective ethical leadership in global organizations. A review of recurring ethical dilemmas results in the development of a personal code of ethics appropriate for global leadership. The literature and best practices related to the leader's role in promoting effective governance for a healthy organization along with social responsibility and sustainable development are examined. 3 credits.

### **LDS 7005 Global Leadership Development**

From a global perspective, leadership development models are analyzed with a focus on organizational and individual outcomes. Leadership development practices are evaluated as they relate to and impact the development of intellectual capital, organizational innovation, talent management, succession planning and executive selection criteria. Leadership development programs for expatriates and effective modes of leadership development for different countries and cultures are analyzed. 3 credits.

### **LDS 7006 Developing Human Capital**

Classic and recent research, models and best practices for the development of human capital are examined. Approaches to linking organizational strategy, culture, and human resources practices are evaluated with an emphasis on talent development and the use of human capital to create a competitive advantage. Processes to develop and measure individual and team performance are examined. The unique challenges of leading project, virtual and remote teams are analyzed. 3 credits.

### **LDS 7007 Global Strategic Leadership**

Literature and best practices in the development of strategic initiatives are analyzed with the goal of achieving competitive advantage in the global marketplace. Quali-

ties of strategic leadership and strategic processes are examined including strategy formation, tactical planning and decision-making throughout the organization, as well as pro-activity in addressing environmental challenges and cultural differences. Also analyzed are systems-thinking, “Best-in-Class” benchmarking and partnerships, and employee empowerment. 3 credits.

### **OLM 7001 Organizational Behavior & Culture**

Critical analysis of theories, research, and best managerial practices which impact human behavior in organizational, national and global contexts. The study of how culture informs and shapes all aspects of behavior and communication is emphasized. With a focus on achieving long-term, high quality performance and highly engaged associates, the key dimensions of rapidly changing organizations and transnational organizations are examined including the psychology of individual differences, motivation, groups and interpersonal influence, and emerging complex organizational structures and processes. 3 credits.

### **OLM 7002 Marketing Theory & Research**

Critical analysis of foundational marketing theories and research including marketing mix, consumer behavior, direct marketing, brand management, and marketing communications in economic and behavioral contexts. Also analyzed are emerging theories for 21st century marketing including international marketing, services marketing, social marketing, global marketing, and e-marketing. Research activities are examined such as data gathering and analysis of qualitative and quantitative information to drive marketing strategies. Contemporary issues and challenges impacting the future of marketing are examined in terms of their influence on marketing management functions. 3 credits.

### **OLM 7003 Service Science Management & Development**

During the last twenty years most industrial and manufacturing economies have evolved into service and information-based economies. To advance this transformation within organizations a new, interdisciplinary field of “service science” has emerged that combines the relevant knowledge of science, business and technology. The literature and best practices of this emerging field are analyzed including the nature of service systems and their development, the management of systematic transformation, and strategic service management planning. A key dimension of service science to be examined is service innovation that will increase productivity and efficiencies, will grow revenues by developing new services, and will improve the service experience to increase customer loyalty and market share. 3 credits.

### **OLM 7004 Managing Innovation & the Learning Organization**

Critical analysis of theoretical and empirical literature, and best practices about managing innovation and the learning organization. The key transformational role of technology and its impact on emerging core organizational learning capabilities are emphasized. Collaborative work environments, diffusion of innovation, systems thinking, and the technology adoption cycle are examined as means to improve organizational capabilities and managerial competencies required to promote innovation and a learning organization. The cultural structures and processes of a learning organization are explored. 3 credits

### **OLM 7005 Managing for Financial Performance & Accountability**

Critical analysis of theoretical and empirical literature, and best practices for managing private and public organizations to achieve financial accountability and financial performance. Accounting as a managerial tool for assessment of business strategy and tactical implementation are examined. Principles of financial management focusing on the development and use of budgets for planning and control, demonstrating accountability, and establishing priorities within an organization are analyzed. The use of financial data to lead decision-making, links between finance and strategic planning, and Sarbanes-Oxley are explored. Creating shareholder value is analyzed, along with links to customer loyalty. Cash flow management, international financial reporting and consolidations employing currency conversions, and the standards of ethical behavior in various countries are examined. 3 credits.

### **OLM 7006 Strategic Development of Multinational Organizations**

Critically analyze theoretical and empirical literature, and best practices of the strategic management processes for multinational organizations. Foundational concepts for competitive analysis and both short and long-term competitive success are examined including barriers to effective strategic management, Porter's competitive advantages system, and multinational strategic management development. The emerging literature and best practices of value chain analysis, supply chain management, and the global context of organizational sustainability are reviewed to provide recommendations to create and strengthen the organization's competitive advantage and to sustain superior performance. The structure, reporting responsibilities and centralized/decentralized strengths and weaknesses of a multinational organization are explored. 3 credits.

### **RES 7000 Introduction to Research Methods**

This course emphasizes basic principles and techniques employed in social and behavior science research methods. More specifically, students will review a variety of research methods and will be introduced to the basics of research design. This course will discuss sampling techniques, descriptive, inferential statistics, and basics of testing hypothesis. Students will practice formulating research questions and hypotheses; and interpreting and critiquing statistical results found in peer-reviewed empirical studies. Students will also be able to practice using SPSS. 3 credits.

### **RES 7011 Research Critique**

*Prerequisites: RES 7000*

This course helps enhance students' skills in conceptual argument construction and research analysis. Students will review empirical studies in global leadership and critically evaluate structure, effectiveness, logic and flow of arguments. Students will also examine research purpose, effective hypothesis construction, variables, and research methods. The course will use qualitative and quantitative peer-reviewed articles for research critique. In addition, students will learn about basic and applied natures of research. Finally, students will practice writing research proposals to reflect the applied nature of global leadership scholarship. 3 credits.

### **RES 7012 Research Design**

*Prerequisites: RES 7000, 7011*

The purpose of this course is to advance students' understanding of theory formation and provide students with skills to design effective research in applied settings. The course will examine selection and application of different qualitative and quantitative methodologies for conducting research. It will also evaluate effective research based on connection between methods, data, and arguments. Students will be required to develop a research proposal for an applied project to convert challenges faced by global leaders into research questions or hypotheses and design an applied study that addresses them. 3 credits.

### **RES 7013 Quantitative Methods In Research**

*Prerequisites: RES 7000, RES 7011, RES 7012*

This course focuses on the application of quantitative research methods. It presumes basic knowledge of the research process and familiarity with quantitative studies in the field of global leadership. Students will use SPSS software application to analyze bivariate and multivariate parametric and non-parametric statistics, and will interpret and report results in a series of exercises. The course will introduce general purpose and description of the factor analysis; and general purpose of the structural equation modeling. Students will evaluate peer-reviewed research articles, apply course content to design a research proposal, and conduct a pilot student to answer research questions or test hypotheses. 3 credits.

### **RES 7014 Qualitative Methods In Research**

*Prerequisites: RES 7000, RES 7011, RES 7012*

The course is designed to provide students with more in-depth understanding of naturalistic, qualitative research methods. Students will review philosophical assumptions underlying qualitative paradigms and will learn about design, purposeful sampling, field work, and data collection methods. Course will introduce students to current data analysis techniques and computer software used to analyze qualitative data. Throughout the course, students will read and critically evaluate peer-reviewed qualitative studies. Students will also gain first-hand experience in the qualitative research process by designing and conducting a study, analyzing and interpreting their data, and writing and presenting a report on their findings. 3 credits.

### **RES 7015 Global Leadership Research**

*Prerequisites: RES 7000, RES 7011, RES 7012*

The purpose of this course is to examine a development of leadership theory in different cultures and to learn about nuances of conducting international studies. Such topics as working with an international sample; collaborating with international scholars; cultural philosophical assumptions and frames of reference and their influence on theory development; challenges with a concept translation; publication standards in international scholarly outlets are among a few topics examined in the course. This course will also enable students to evaluate generalizability of research finds in Western leadership studies. Finally, students will analyze leadership students published by scholars from Asia, Eastern Europe, Latin America, Africa, and Middle East. Applications for theory development as well as for leadership development will be discussed. 3 credits.

### **RES 8001 Dissertation Research Seminar & Prospectus**

The primary focus of this course is on helping students narrow their research interests and develop a Research Brief that identifies a gap in the global leadership scholarship and suggests a specific research area for further investigation. Students will also discuss potential research designs for their projects, develop research questions or hypotheses, work on operationalization of their variables, and formulate practical applications of their research. The course will address both the philosophical and methodological issues of students' projects. Ethical and diversity issues (protection of human subjects, cultural and language issues) will be considered. Students with approved Research Briefs will start working on their Research Prospectus. The second goal of the course is to evaluate students' progress in the program and assess their readiness as scholars to conduct an independent research project (their dissertation). Hence, students will conclude the course with the Global Leadership Paper where they explore several original topics suggested by the course professor. 3 credits.

### **RES 8002 Dissertation Proposal Development, Defense, & IRB Application**

Used during continuation of work on the dissertation, this course is necessary to comply with the continuous registration requirement of the degree program. The course serves two purposes: (1) Students that made sufficient progress in RES 8001 but did not complete the prospectus (2) Students that passed RES 8001, enroll in RES 8002 in the dissertation chair's section, form a dissertation committee, develop the dissertation proposal, successfully defend the dissertation proposal before the dissertation committee, and submit an IRB application. A dissertation proposal includes completed first three chapters of the dissertation, and relevant front and back matter. The IRB application, which includes the Research Protocol, certifications and signatures, and curriculum vitae of the principal investigator, is submitted to the Institutional Review Board for Human Subjects (IRB). 3 credits.

### **RES 8003 Dissertation Implementation**

*Prerequisite: RES 8001 (P Grade); RES 8002 (submitted IRB application).*

Used during continuation of work on the dissertation, this course is necessary to comply with the continuous registration requirement of the degree program. Students register in the section of their dissertation chair. RES 8003 is for students that have successfully defended the dissertation proposal, and are at any of the following stages: revising the IRB application; received IRB approval; approval by Dissertation Chair to implement the study; data collection; completed data collection; developing Chapters 4 or 5; finalizing the written dissertation, preparing for the dissertation defense. Students must maintain compliance with all IRB policies during implementation and notify the IRB of data collection completion. In order to receive a passing grade (P) with each enrollment in RES 8003, students must demonstrate sufficient progress toward completion of the dissertation. A maximum of 6 terms of RES 8003 may be taken. Grading is the responsibility of the Dissertation Committee Chair and is Pass (P)/Fail (F) or No Pass (NP). (1 credit minimum, up to a maximum of 6 credits)

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