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## **The Programs and Courses of Study...**

*...described herein are based upon reasonable projections of faculty availability and appropriate curriculum considerations.*

*Alvernia University reserves the right to terminate or modify program requirements, content, and sequence of program offerings from semester to semester for educational reasons which it deems sufficient to warrant such action.*

*Further, Alvernia University reserves the right to terminate programs from semester to semester for financial or other reasons which it determines warrant such action. Content, schedule, requirements, and means of presentation of courses may be changed at any time by the university for educational reasons which it determines are sufficient. Programs, services, or other activities of the university may be terminated at any time due to reasons beyond the control of the university including, but not limited to, acts of God, natural disasters, destruction of the premises, labor disturbances, governmental orders, financial insolvency, or other reasons or circumstances beyond the control of the university.*

## **PROGRAMS AND COURSES OF STUDY**

Alvernia University offers associates, bachelor's, master's, and doctoral degrees. Information on master's and doctoral degrees can be obtained by contacting the Graduate and Adult Education Division at 610-796-8228.

### **Associate of Science Degrees/Certificates:**

- Applied Health– Dual Admission  
with Reading Hospital School of Health Sciences
- Business
- Child Advocacy Studies Certification (CAST)
- Medical Imaging – Dual Admission  
with Reading Hospital School of Health Sciences
- Surgical Technology – Dual Admission  
with Reading Hospital School of Health Sciences

Students who are interested in earning an associate degree and then a bachelor's degree must first complete the associate degree. Once the student has completed the associate degree, the student must reapply through the Admissions Office for acceptance into a bachelor's degree program.

Students who meet the entry requirements for the School of Graduate and Adult Education, or earned an Associate of Science degree through a partnership agreement, may request Mid-Degree status. Students who are in a dual enrollment program and transition within an academic year do not have to reapply through the Admissions Office for acceptance into an Adult Education bachelor's degree program. The stipulation, that students must achieve a 2.0 GPA in their major field and 2.0 cumulative GPA in all completed courses and all required courses must be passed, applies to dual enrolled students prior to advancing into a bachelor's degree program.

### **Bachelor of Arts Degrees:**

- Behavioral Health (Traditional & Adult Education)
- Communication (Traditional & Adult Education)
- Criminal Justice Administration (Traditional & Adult Education)
- English
- Education:
  - Early Childhood Pre K-4
  - Special Education Pre K-8/Early Childhood
  - Middle School: (for qualified transfer students only)
- Math

Math & Science

- Special Education Certification
- Secondary Education Certifications:
  - Biology
  - Chemistry
  - English
  - Mathematics
  - Social Studies

History

Liberal Studies (Traditional & Adult Education)

Philosophy

Political Science

Theology

Theatre

**Bachelor of Science Degrees:**

Accounting (Traditional & Adult Education)

Athletic Training

Biochemistry

Biology

Biology Medical Laboratory Science

Chemistry

Environmental Biochemistry

Finance

Forensic Science

General Science

Healthcare Administration

Healthcare Science

Human Resource Management

Mathematics

Management (Traditional & Adult Education)

Marketing (Traditional & Adult Education)

Psychology

Sport Management

**Bachelor of Science in Nursing (BSN)**

Pre-Licensure Nursing (Traditional Only)

Nursing Completion – RN to BSN (Adult Education only)

**Bachelor of Social Work (BSW)** (Traditional & Adult Education)

**Master's Degrees:**

Master of Arts in Clinical Counseling  
 Master of Arts in Leadership for Sustainable Communities  
 Master of Arts in Organizational Leadership  
 Master in Business Administration  
 Master in Education  
 Master of Science in Nursing  
 Master of Science in Occupational Therapy

**Doctoral Degrees:**

Doctor of Physical Therapy  
 Doctorate of Philosophy in Leadership

**Minors:**

In addition to the above major areas, the following minors are also available:

Art	General Science
Behavioral Health	Gerontology
Biology	History
Business	Mathematics
Chemistry	Music
Communication	Physics
Community & Environmental Sustainability	Political Science
Community Engagement	Psychology
Criminal Justice Administration	Philosophy
Digital Media	Sociology
Economics	Spanish
English	Theatre
Environmental Biochemistry	Theology
Forensic Science	Women's & Gender Studies

A minor is an optional program of study that will complement or supplement the student's major. Completion of a minor will be reflected on the transcript but not on the diploma. It is a sequence of courses constituting a coherent program of study *outside* of the major and less extensive than a major, typically 18-21 credits. The minor may not be in the discipline of the major and must include at least 12 credits not from the major's core, concentration, track or emphasis; related area courses supporting the major may be double-counted to fulfill the minor. Nine credits in the minor must be earned at Alvernia. A 2.0 GPA in the minor is required for completion.

## SEARCH GENERAL EDUCATION AT ALVERNIA

SEARCH is the name of Alvernia University's General Education program. The SEARCH program is grounded in the liberal arts tradition of rigorous, open inquiry into the Enduring Questions that shape the human experience. So that students are exposed to the nature of this inquiry from a variety of disciplinary perspectives, the first-year experience and the mid-level explorations draw heavily upon the liberal arts traditions. Knowledge gained from multiple disciplinary perspectives, integrated with a chosen major at Alvernia, prepares graduates to navigate change in the twenty-first century. SEARCH requirements span the undergraduate experience at Alvernia, incorporating curricular and co-curricular elements.

### Course Number System

100 level courses	Designed for freshmen or qualified students
200 level courses	Designed for sophomores
300 level courses	Designed for juniors
400 level courses	Designed for seniors

### FIRST-YEAR CORE CURRICULUM: ENDURING QUESTIONS : 12 CREDITS

FYS 101: First-Year Seminar: Enduring Questions – 3 credits

or HNR 160: Honors Seminar

Designed specifically for new college students and based around contemporary themes, First-Year Seminar (FYS) promotes academic success, personal development, interpersonal connections, and awareness of current events. The course will introduce students to the expectations and values of an academic community, the Liberal Arts tradition, and to Alvernia's Franciscan mission and heritage. Preparing students for a successful transition to the university, FYS will teach students how to become active learners, strengthen their critical reading and thinking skills, and develop an educational plan.

COM 101: Composition and Research – 3 credits

This course is an introduction to the critical thinking, reading, researching, and writing skills that a student will encounter in an academic setting. Students will learn to develop their own ideas and respond to the ideas of others. Students will write essays in a variety of academic modes: exposition, analysis, argumentation and research. Students will learn both APA and MLA citation styles. Course is available only after placement by departmental faculty. Students must achieve "C" or better to fulfill core requirements

THE 105: Foundations of Theology – 3 credits

Students examine the nature of religion and its relation to other areas of human experience.

PHI 105: Introduction to Philosophy – 3 credits

A historical introduction to the fundamental problems and methods of philosophy based on readings in ancient, medieval and modern literature.

## **MID-LEVEL LIBERAL ARTS EXPLORATION**

**28/29 CREDITS**

### **Exploring the Natural World**

Lab Science – 3-4 credits

Students practice scientific inquiry as a means for learning about life by completing 3-4 credits of lab science in Biology, Chemistry or Physics.

Mathematics – 3 credits

To develop mathematical proficiency and applications in contemporary life, students complete 3 credits in mathematics other than MAT 100.

### **Culture and Language**

World Languages – 6 credits

Six credits in sequence in one world language (other than English) promote an appreciation of language and culture in a diverse world.

Human Diversity – one course

Students complete one Human Diversity (D) designate course to develop sensitivity towards the richness of cultures in the United States and worldwide in our increasingly interdependent global community.

Communication – 3 credits

Students practice the art of effective communication in all forms by completing 3 credits in a communication course other than COM 100 and COM 101.

Writing Enhanced – one course

Building upon skills learned in COM 101, students complete one Writing Enhanced (WE) designate course at the 200-level or higher, preferably in the major. This course provides scaffolding between COM 101 and Capstone writing experiences.



## **Individuals and Communities**

History and Political Science – 3 credits

Students complete 3 credits from History or Political Science to cultivate analysis of societies, political systems, and cultures of all eras.

Social and Behavioral Sciences – 3 credits

Students develop problem-solving strategies in analyzing and gaining an understanding of human behavior and social interaction by completing 3 credits in Psychology, History, Political Science, Sociology, Social Sciences or Economics.

Community Service – 40 hours

Service and civic engagement is central to the mission of Alvernia University. Students complete 40 community service hours through credit-bearing service-learning courses, service trips and/or volunteer work. Community Service hours are pro-rated for transfer students based on the credits accepted in transfer.

## **Creative Expressions**

Literature – 3 credits

Students complete 3 credits in any ENG or other designated LIT course to gain an appreciation of human expression manifested in literature.

Fine and Performing Arts – 3 credits

Promoting an awareness of creative process and creativity, students complete 3 credits in art, music or theatre courses other than FA 100.

## **ETHICAL LEADERS AND FOLLOWERS**

**6 CREDITS**

Theology or Philosophy – 3 credits

Building upon the First-Year Core Curriculum, students advance their studies by completing one Theology or Philosophy course at the 200-400 level. THE 105 or PHI 105 is a prerequisite.

Ethics and Morality – 3 credits

Advancing the examination of ethical leadership and moral courage, students complete one 200-400 level Philosophy or Theology course designated Ethics (E). THE 105 or PHI 105 is a prerequisite.

## **CONCENTRATED PATHS OF KNOWLEDGE**

Students continue their exploration of Enduring Questions and supplement study in their major by choosing from three paths of knowledge designed to integrate learning and promote problem-solving at more advanced levels.

**Path 1: Interdisciplinary Study (IS)**

Three courses, at least two from Liberal Arts disciplines, not the major, at the 200-400 level from the interdisciplinary minors of Women & Gender Studies, Digital Media or Community and Environmental Sustainability.

**Path 2: Multidisciplinary Study (MS)**

Three courses, at least two from Liberal Arts disciplines, not the major, at the 200-400 level employing multiple disciplinary perspectives to explore the Enduring Questions in one of the following themes: Cultural & Global Studies, Imagination & Creativity, Peace & Conflict, Poverty & Wealth or Sustainability, Science & Technology. Thematic courses are listed below.

**Path 3: In-depth Disciplinary Study (DS)**

Three courses at the 200-400 level in one Liberal Arts discipline other than one's major, guided by common ideas and methods of inquiry. Students choose from Art, Biology, Chemistry, Communication, Economics, English, History, Mathematics, Music, Philosophy, Political Science, Psychology, Sociology, Theology, Theatre and World Languages. This path may be used to give students a firm foundation in a discipline supporting their chosen major, or to pursue an interest in one of the Liberal Arts disciplines.

**SENIOR CAPSTONE – one course**

One capstone designated course (CAP), typically within the major. Designated Capstone courses will incorporate reflection on a student's academic journey through the SEARCH curriculum.

**DESIGNATED COURSES searchable in SELF-SERVICE****D – Human Diversity**

Students complete one Human Diversity (D) designate course to develop sensitivity towards the richness of cultures in the United States and worldwide in our increasingly interdependent global community.

BH 411	Counseling Special Populations
BIO 232	Sustainable Communities: Santo Domingo
BUS 312	International Business I
BUS 412	International Business II
BUS 414	International Marketing
BUS 427	International Human Resource Management
COM 234	Intercultural Communication
CJ 216	Gender and the Criminal Justice System
CJ 218	Multicultural Issues in Criminal Justice
ENG 207	Contemporary Fiction and Drama
ENG 216	Women in Literature

ENG 309	World Literature
HCS 320	Healthcare Science & Cultural Competency
HIS 110	World Civilizations
HIS 230	Women's History
HIS 240	Topics in Global History
HIS 245	Topics in Native American History
MUS 222	Multicultural Music
MUS 322	World Music
MUS 331	Women in the Arts
NUR 312	Transcultural Nursing
NUR 318	Dev. Cultural Competency & Global Awareness
PHI 245	Eastern Philosophy and Religion
PHI 250	Feminist and Gender Theory
PSY 215	Multicultural Issues in Psychology
PSY 308	The Psychology of Gender
SM 210	Sport in Society
SOC 306	Racial and Cultural Relations
SOC 411	Sociology of Men and Women
SPA 151	Practical Spanish Conversation
SPA 311	Cultural Perspectives of Spain
SPA 312	Cultural Perspectives of Latin America
SPE 100	Intro to Exceptionalities in Children and Youth
SSC 201	Introduction to Cultural Anthropology
SSC 310	Cultural Geography I
SSC 311	Cultural Geography II
SSC 321	Global Society
SW 209	Death, Dying, and Bereavement
SW 231	Culturally Sensitive Human Service Practice
THE 225	Global Ethics
THE 245	Eastern Philosophy and Religion
THE 355	Franciscan Pilgrimage to Assisi and Rome

#### E – Ethics

Advancing the examination of ethical leadership and moral courage, students complete one 200-400 level Philosophy or Theology course designated Ethics (E).

PHI 200	Introduction to Ethics
PHI 205	Topics in Ethics
PHI 206	BioMedical Ethics
PHI 207	Ethics and Community Engagement
PHI 210	Professional Ethics
PHI 215	Environmental Philosophy
PHI 220	Law and Justice
THE 200	Christian Approach to Morality
THE 210	Medical Moral Theology

THE 225	Global Issues: The Gospel Perspective
THE 235	Topics in the Catholic Social Tradition:

## CAP – Capstone

One capstone designated course (CAP), typically within the major.

AT 445	Senior Capstone I
AT 446	Senior Capstone II
BH 413	Special Issues Seminar
BUS 402	Auditing
BUS 438	Business Seminar
BUS 443	Compensation and Benefits
BUS 444	Marketing Research Seminar
BUS 450	Organizational Leadership
CJ 350	Professional Seminar in Criminal Justice
CJ 408	Agency Practicum
COL 400	Seminar in Liberal Studies
COM 480	Research Seminar
COM 481	Internship
ED 472	Student Teaching Seminar
ENG 406	Research Seminar
HCS 430	Healthcare Science Capstone
HIS 426	Research Seminar
MAT 415	Mathematics Seminar
NUR 408	Introduction to Research Methods
NUR 409	Leadership & Ethical Dimensions for Nursing Practice
NUR 417	Nursing Role Synthesis
OT 482	Occupational Therapy Fieldwork: Practicum I
OT 483	Occupational Therapy Fieldwork: Practicum II
POS 425	Research Seminar
PSY 408	Senior Seminar
PSY 422	Ethical & Professional Issues I
SCI 402	Seminar
SM 455	Sport Management Seminar
SW 407	Senior Field Education I Seminar
THR 434	Senior Production Workshop

## WE – Writing Enhanced

AT 301	Advanced Athletic Training Procedures
BH 204	Theories of Counseling & Psychotherapy
BUS 438	Business Seminar
CHE 211	Organic Chemistry Laboratory II
CJ 220	Writing for the CJ Professional
COM 131	Writing for the Media

ED 270	ESL for Teachers
ENG 202	Critical Approaches to Literature
HCS 300	Writing for Healthcare Science
NUR 210	Intro to Nursing Practice: Roles & Responsibilities
OT 429	Writing for the Professional Occupational Therapist
PSY 230	Applications of Research
THE 350	Franciscan Studies
THR 356	Theater History II

## Path 2 (MS) Course Lists:

### Imagination and Creativity

What is creativity? How is imagination integral to the human experience? How can imagination and creativity be useful to people in professions outside of the arts? This IDT investigates these questions, exploring ideas like: what should the future be like, how is change possible, what is beauty, what is the role of arts in society?

ART 201	Drawing II
ART 208	Painting I
ART 209	Basic Photography
ART 215	Art: Prehistoric through Middle Ages
ART 217	Art: Renaissance to Present
ART 220	Ceramics
ART 251	3-D Design
ART 281	Graphic Design and Illustration
ART 307	Silkscreening
ART 308	Painting II
ART 309	Intermediate Photography
ART 319	Digital Photography
ART 340	Watercolor
BH 330	Crisis Intervention
BIO 203	Biosphere
BUS 309	Advertising and Promotion
BUS 431	Entrepreneurship
CHE 301 & 310	Physical Chemistry I & Lab
COM 244	Computer-Assisted Design
COM 251	Interpretation of Film
COM 261	Poetry Writing
COM 263	Fiction Writing
COM 332	Multi-media Design & Editing
COM 351	Script Writing and Play Writing
COM 352	Video Production
COM 353	Film Studies
COM 360	Writers Workshop

COM 452	Campus Show Television Production
CJ 422	Crisis Management
ED 302	Principles of Writing Instruction
ED 314	Teaching the Arts in Elementary School
ENG 203	Early American Poetry
ENG 204	Modern American Poetry
ENG 206	Modern British Poetry
HIS 307	Greco-Roman Civilization
HIS 308	American Revolution and Constitution
HIS 319	Late Antiquity and Early Medieval
HIS 349	The Age of Revolution (1610-1815)
MUS 224	Broadway Musicals
MUS 235	Harmony
MUS 331	Women in the Arts
PHI 235	Existentialism
PHI 240	Philosophy of Art and Beauty
PHI 245	Eastern Philosophy & Religion
PHI 310	Metaphysics
PHI 332	Mind, Brains and Computers
POS 212	Comparative Politics
POS 424	History of Political Thought
PSY 310	Experimental Psychology
SCI 406	Research I
THE 225	Global Issues: The Gospel Perspective
THE 245	Eastern Philosophy & Religion
THE 255	Santo Domingo
THE 300	Marriage and Sexuality
THE 350	Franciscan Studies
THE 364	Mysticism
THE 420	Worship and the Sacraments
THR 142	Creativity Workshop
THR 255	Intermediate Acting
THR 350	Directing for the Stage
THR 357	Behind the Curtain
THR 360	Advanced Acting/Directing

### **Cultural and Global Issues**

As the world moves closer together through increased globalization, migration, and technological advancement, humans are recognizing the importance of the role of culture within all aspects of human existence. Cultural and Global issues include a diverse array of subjects, such as Religious Freedom, Political Ideologies, Education, Technology, Gender Equality, Cultural Diversity, Migration and Indigenous Peoples, Global Citizenship, Economic Interdependence, Languages and Intercultural Communication. By approaching these issues from an interdisciplinary perspective, the complexities of these

issues can be addressed in ways that yield well-informed solutions. Such an approach can also engender a critical mindset about the effects of cultural practices, norms and traditions; thus, we may be able to think more deeply about “who we are” and “where we have come from.”

BH 411	Counseling Special Populations
BH 413	Special issues seminar
BIO 203	Biosphere
BIO 230	Sustainability Principles & Practices
BIO 320	Ecology
BUS 293	Change Management
BUS 312	International Business I
BUS 412	International Business II
BUS 414	International Marketing
BUS 427	International Human Resource Management
BUS 445	Leadership Seminar
SM 210	Sport in Society
COM 234	Intercultural Communication
COM 422	Social Impact of Mass Media
CJ 216	Women and the Criminal Justice System
CJ 218	Multicultural Issues in Criminal Justice
ECON 352	History of Economic Thought
ECON 353	Economic Justice and Judeo-Christian Conscience
ECON 432	International Political Economy
ED 402	Professional and Legal Issues (1cr)
ED 472	Student Teaching Seminar (2cr)
ENG 207	Contemporary Fiction and Drama
ENG 216	Women in Literature
ENG 309	World Literature
SPE 100	Overview of Human Exceptionalities
HCS 320	Healthcare Science and Cultural Competency
HCS 400	Healthcare Systems and Policy
HCS 420	Current Issues in Healthcare Science
HIS 230	Women in History
HIS 240	Topics in Global History
HIS 245	Topics in Native American History
MUS 221	American Music
MUS 222	Multicultural Music
MUS 322	World Music
MUS 331	Women in the Arts
NUR 312	Transcultural Nursing
PHI 215	Environmental Philosophy
PHI 240	Philosophy of Art and Beauty
PHI 245	Eastern Philosophy & Religion
PHI 250	Feminist and Gender Theory

PHI 420	Social and Political Philosophy
POS 212	Comparative Politics
POS 225	Contemporary World Affairs
POS 331	Constitutional Law
POS 424	History of Political Thought
PSY 215	Multicultural Issues in Psychology
PSY 308	The Psychology of Gender
SPA 151	Practical Spanish Conversation
SPA	Any course 200-400
SSC 201	Intro to Cultural Anthropology
SSC 222	Intro to Geography
SSC 230	Economic Geography
SSC 310	Cultural Geography I
SSC 311	Cultural Geography II
SSC 321	Global Society
SW 301	Social Welfare
SW 347	International Community Development
SOC 212	Contemporary Social Problems
SOC 306	Racial and Cultural Relations
SOC 411	Sociology of Men and Women
THE 225	Global Issues
THE 245	Eastern Philosophy & Religion
THE 255	Santo Domingo
THE 355	Franciscan Pilgrimage to Assisi & Rome

### **Poverty and Wealth**

What is a good society? What is fair? How should we treat each other? What is the best economic system? How do politics and societal norms impact perceptions of poverty and wealth? How do diverse cultures allocate resources differently? What is the relationship of wealth and conflict to conflict and cooperation? How does education impact socio-economic status? By reflecting upon these questions we, as human beings, are able to recognize what is most valuable in our lives and in our personal and societal interactions with others. The issues are also matter of social justice, which requires establishing systems of values, rights, and practices based upon fairness and equality.

BH 411	The Cultures of Addiction & Recovery
BIO 230	Sustainability Principles and Practices
BUS 293	Change Management
BUS 320	Labor Relations
COM 422	Social Impact of Mass Media
CJ 216	Gender in the Criminal Justice System
CJ 218	Multicultural Issues in Criminal Justice
CJ 285	Victimology
CJ 377	Juvenile Delinquency and Justice



CJ 379	Ethics in Criminal Justice
CJ 411	Domestic Violence
ECON 352	History of Economic Thought
ECON 353	Economic Justice & Judeo-Christian Conscience
ECON 432	International Political Economy
ED 402	Professional and Legal Issues (1cr)
ED 472	Student Teaching Seminar (2cr)
ENG 305	Early American Fiction Writing
ENG 306	Modern American Fiction Writing
ENG 307	The English Novel
ENG 309	World Literature
HCS 320	Healthcare Science and Cultural Competency
HCS 400	Healthcare Systems and Policy
HIS 323	The High and Late Middle Ages
HIS 349	Age of Revolutions
HIS 352	America's Industrial Revolution and the Age of Reform
HIS 364	America's Trial: The Depression through the Korean War
NUR 312	Transcultural Nursing
PHI 200	Introduction to Ethics
PHI 210	Professional Ethics
PHI 220	Ethics and Law
PHI 250	Feminist and Gender Theory
PHI 420	Social Political Philosophy
POS 221	American Political Parties
POS 424	History of Political Thought
PSY 215	Multicultural Issues in Psychology
PSY 308	The Psychology of Gender
PSY 405	Social Psychology
SM 210	Sport in Society
SOC 212	Contemporary Social Problems
SOC 306	Racial and Cultural Relations
SOC 401	Sociological Theory
SOC 411	Sociology of Men and Women
SSC 201	Introduction to Cultural Anthropology
SSC 230	Economic Geography
SSC 321	Global Society
SW 201	Introduction to Social Work
SW 231	Culturally Sensitive Human Services Practices
SW 301	Social Welfare
SW 302	Social Policy
SW 303	Human Behaviors/Social Environment I
SW 304	Human Behaviors/Social Environment II
THE 200	Christian Approach to Morality
THE 225	Global Issues: The Gospel Perspective
THE 255	Santo Domingo

**Sustainability, Science and Technology**

This theme asks questions about the role of science and technology in our world, particularly as they relate to our quest to achieve cultural, political, economic, and environmental sustainability. More than simply finding scientific solutions to issues like global warming, pollution, or urbanization, sustainability requires the ability to reflect on questions of equality and justice. Thus, some of the Enduring Questions around the issue of sustainability include: How can we allot a limited amount of global resources in ways that are equitable to all communities, both future and present? How do we simultaneously grow our economies while respecting the rights of indigenous peoples? Do businesses have a responsibility to be sustainable? What are our responsibilities as citizens of the global community?

ART 209	Basic Photography
AT 340	Organization & Administration of AT
AT 440	Pharmacology in Athletic Training
BH 201	Foundations of Addictions
BH 411	Counseling Special Populations
BIO 203	Biosphere
BIO 315	Forensic Medicine
COM 234	Intercultural Communications
COM 332	Multimedia Design and Editing
COM 340	Advertising Workshop
COM 420	Law & Ethics of Mass Communication
COM 422	Social Impact of Mass Media
ENG 207	Contemporary Fiction and Drama
HIS 349	The Age of Revolutions
HIS 352	America's Industrial Revolution & the Age of Reform
HIS 353	The European Century (1763-194)
LAS 500	Evolution of Scientific Thought
LAS 545	Science Concepts in Literature
LAS 638	Sustaining Our Environment
MAT 208	Introductory Statistics
MAT 209	Probability and Statistics
MAT 210	Inferential Statistic
NUR 405	Health Promotion in Families & Communities
PHI 210	Professional Ethics
PHI 215	Environmental Philosophy
PHI 220	Ethics and Law
PHI 250	Feminist and Gender Theory
PHI 420	Social and Political Philosophy
PHY 200	Physics I
SSC 310	Cultural Geography I

SSC 311	Cultural Geography II
SSC 321	Global Society
THE 210	Medical Moral Theology
THE 225	Global Issues: Gospel Perspective
THE 350	Franciscan Studies

### **Peace and Conflict**

Individuals and communities are significantly impacted by their exposure to acts of violence and conflict. Understanding the underlying causes of violence is imperative to establishing more peaceful communities and providing solutions to conflict. Enduring questions about peace and conflict center around human nature, cause of war, and methods of peacemaking. What causes war? How can we limit acts of violence, and how should we respond to them? What has been the role of religion in conflict and in peacemaking? Can there be ‘rules’ or war? What are the lessons of history for future conflict resolution?

BH 202	Origins of Mental Illness
BIO 320	Ecology
BUS 320	Labor Relations
COM 213	Interpersonal Communication
COM 234	Intercultural Communication
COM 422	Social Impact of Mass Media
CJ 346	Terrorism
CJ 377	Juvenile Delinquency and Justice
CJ 411	Domestic Violence
ECON 353	Economic Justice & Judeo-Christian Conscience
ENG 303	Shakespeare: Tragedies & Romance
ENG 321	Ethics and Tragedy
HIS 281	Topics in Military History
HIS 303	20th Century World History
HIS 308	American Revolution & Constitution
HIS 334	Jacksonian and Ante-Bellum America
HIS 337	Early Modern Europe
HIS 344	The Era of the Civil War
HIS 349	The Age of Revolutions (1610 -1815)
HIS 364	America’s Trial
NUR 405	Health Promotion in Families & Communities
PHI 220	Philosophy of Law and Justice
PHI 250	Feminist and Gender Theory
PHI 335	Philosophy of Love and Friendship
PHI 420	Social and Political Philosophy
POS 212	Comparative Politics
POS 225	Contemporary World Affairs
POS 317	The Presidency
POS 408	American Foreign Policy

POS 424	History of Political Thought
PSY 220	Close Relationships
PSY 306	Group Dynamics
PSY 330	Crisis Management in Mental Health Field
PSY 405	Social Psychology
SOC 210	Sociology of the Family
SOC 212	Contemporary Social Problems
SOC 306	Racial and Cultural Relations
SSC 321	Global Society
SW 211	Intervention Strategies for Families
SW 302	Social Policy
THE 225	Global Issues: The Gospel Perspective
THE 300	Marriage and Sexuality
THE 350	Franciscan Studies

## **Applying for Graduation**

Graduation Application Forms are available in the Registrar's Office. Seniors must submit the Graduation Application Form to the Registrar's Office as follows: October 1 for May Graduation; December 1 for summer graduation; and March 1 for December graduation. The advisor and department chair must sign the form and attach a copy of the completed major sheet. All students are encouraged to participate in Commencement exercises, which are held in May and December.

## **Community Service Requirement**

Service and civic engagement has its roots deeply embedded in the foundation of Alvernia University and is central to the mission of our Catholic, Franciscan Institution. Service provides students the opportunity to use their gifts and talents to help those in need and to support local non-profit organizations. Additionally, service and civic engagement is an integral part of students' learning experiences, contributing to their intellectual, social, and spiritual growth and development and providing a framework for students' roles as members of local, regional, and global communities.

Alvernia students must complete service and civic engagement hours as part of the General Education Program. Associate degree students must complete 20 hours; baccalaureate degree students must complete 40 hours. Transfer students' service and civic engagement hours are based on the number of credits accepted

upon matriculation. Transfer students should consult with the Registrar or their faculty advisor for specific number of hours.

In collaboration with faculty, the Holleran Center uses the following criteria to guide decisions about the suitability of service opportunities; a) promotes the mission statement and core values of the university, b) advances students' intellectual, social, and spiritual growth, and c) augments the university's visibility in the community. Students can select a combination of opportunities and activities to achieve the total number of hours required:

1. An approved list of community partners;
2. Pre-approved non-profit organizations in a student's home community;
3. Credit-bearing service-learning courses offered by Alvernia University (successful completion of each course and its service-learning component achieves 15 service and civic engagement hours);
4. Academic year service trips and service retreats sponsored by Alvernia University or pre-approved through other institutions;
5. Alvernia University sponsored events that serve the greater Berks community (published by the Holleran Center);
6. Institutions not on the approved list but proposed by students and/or faculty, and approved by the Holleran Center on an individual case basis.

As with all curricular graduation requirements, the student may petition the Academic Standards Committee for a final determination in any dispute about service-hours. Upon completion of each community-service experience, the student will submit the approved form including a reflective piece to the Holleran Center to document hours served.

One of the following activities must be completed as a part of the requirement. Service hours done in pursuit of activities a through e count towards completion of the required 40 service hours. Activity 'f,' if chosen, would not provide hours towards the Service and Civic Engagement requirement.

- a. Participation in one of the following university-wide Days of Service: St. Francis Day, Martin Luther King, Jr. Day, or Earth Day. (4-6 hours)
- b. The completion of an approved Service-Learning Course (15 hours)
- c. Participation in an Alternative Break Trip. (40 hours)
- d. Participation in an Alvernia club or learning-living community that is expressly themed around service or community engagement. Examples include the CURE-sader Club, Alpha Phi Omega, or the Serving Reading Community. Clubs or communities must be officially sanctioned by the Office of University Life, and

- approved by the Holleran Center (various number of hours depending on activities undertaken by the club or community).
- e. The completion of a service project pre-approved in writing by the Holleran Center for Community Engagement. Projects must include work with an approved non-profit community partner and have reported community outcomes (various number of hours depending on project).
  - f. If a student is not able to complete one of the above activities, he or she may submit a 500+ word essay explaining the impact of service on the student's educational career and life ambitions. (Note-this essay does not provide hours towards the requirement.)

For a list of approved sites and guidelines refer to

<http://www.alvernia.edu/about/holleran-center/communityservice.html> or contact the Holleran Center.

## **Background Check Policy for Academic Programs**

**It is the policy of Alvernia University's academic programs to fully comply with Pennsylvania Laws related to criminal record and child abuse history clearances prior to entering any field/clinical educational setting that involves direct contact with children or older adults (defined as a person who is 60 years of age or older) and is associated with academic programs and/or service learning. Depending on the academic program, a repeated background check may be required prior to entering senior-level coursework.**

Students in academic programs and/or service learning (if required by the facility) with convictions/charges documented on the background check reports will be advised on an individual basis. The student must understand and agree that Alvernia University may disclose the results of the background checks to the clinical/field facility where the student has sought to be placed. Certain types of clinical/field facilities have the right and/or responsibility to preclude students from the facility who have a history of criminal activity or child abuse.

Additionally, applicants to the **education** and pre-license **health** programs (nursing, occupational therapy and social work) must understand that in order to meet program outcomes they are obliged to directly work with children (education and nursing) and/or older adults (nursing, occupational therapy and social work). **There are no alternatives to meet program outcomes.** Such applicants/students with convictions/charges documented on the criminal or child abuse reports will be denied acceptance into courses with associated clinical/field practice and therefore cannot complete the applicable program of study. Such applicants/students will be advised of other academic study options

at Alvernia University. Convictions/charges documented on a PA Criminal Record Check report will be based on criteria outlined in Acts 169/13.

Many professions require further licensing or certification beyond a college degree and applicants may be denied employment in certain occupations for misdemeanors and felony convictions, including alcohol related offenses. Refer to the Pennsylvania Liquor Control Board for a complete listing of criminal violations related to licensure [www.lcb.state.pa.us/edu/](http://www.lcb.state.pa.us/edu/).

Academic programs will include written statements regarding background checks in their marketing and catalog documents. Students will be advised of the background check policy during the admission process prior to service learning (if required by the facility).

Specific laws affecting background checks and checking mechanisms:

### PROCEDURES:

Students are responsible for obtaining the following clearances. The fees for the clearances are the responsibility of the students. A copy of the clearances will be maintained in the student's file.

1. Act 34 – PA State Police Criminal Record Check
2. Act 114 – FBI Clearance (fingerprint clearance through the Cogent System)
3. Act 151 – PA Child Abuse History Clearance
4. The decision to not allow enrollment in a nursing program clinical course based upon a positive criminal or child abuse record check may be appealed by the student. See Alvernia University Student Grievance Policy and Process.

Law	Description	Requirement	Mechanism of Checking
Older Adults Protective Services Act  OAPSA Act 169 (1996) and Act 13 (1997)  <a href="http://www.aging.state.pa.us">www.aging.state.pa.us</a>	Affects employees/students in nursing homes, personal care homes, domiciliary care homes, adult daycare centers and home healthcare providers	Submit to a criminal record background check  Report the suspected abuse of any person who is receiving care from the agency regardless of age	PA Criminal Record Check  Students who have not been residents of PA for two consecutive years immediately preceding the date of application must also submit the FBI Criminal History Background Check via Cogent Systems (6-4-12 Department of Aging notification).

<p>PA Department of Public Welfare Child Protective Services Law</p> <p>Section 6344 Title 23 Pa. Chap. 63 Act 73</p> <p><a href="http://www.dhs.state.pa.us">www.dhs.state.pa.us</a></p>	<p>Affects any individual with a significant likelihood of regular contact with children in the form of care, guidance, supervision, or training.</p>	<p>Submit to PA Child Abuse History Clearance, PA Criminal Record Check, and FBI Criminal History Background Check</p>	<p>PA Child Abuse History Clearance Form (CY-113-UF)</p> <p>PA Criminal Record Check</p> <p>FBI Criminal History Background Check via Cogent Systems</p>
<p>PA Department of Education</p> <p>Act 34 (1985) amended by Act 114 (2006) (criminal background)</p> <p>Act 151 (child abuse)</p> <p>Section 111 of Public School Code and Chapter 8 of State Board of Education Regulations</p> <p><a href="http://www.education.pa.gov">www.education.pa.gov</a></p>	<p>All student teachers participating in classroom teaching, internships, clinical, or field experiences; prospective employees of public private schools, vo-tech &amp; intermediate units who have direct contact with children must provide a copy of PSP, FBI reports no more than 1 year old</p>	<p>Submit to PA Child Abuse History Clearance, PA Criminal Record Check, and FBI Criminal History Background Check</p>	<p>PA Child Abuse History Clearance Form (CY-113-UF)</p> <p>PA Criminal Record Check</p> <p>FBI Criminal History Background Check via Cogent Systems</p>
<p>PA Department of Education</p> <p>Background Checks (Act 114 and Act 24) Changes to Section 111 of School Code September 28, 2011</p> <p><a href="http://www.education.pa.gov">www.education.pa.gov</a></p>	<p>Act 24 of 2011 contains a number of significant changes to the PA School Code that are designed to enhance the safety of school children. Section 111 applies to all student teachers participating in classroom teaching, internships, clinical, or field experiences; prospective employees of public and private schools, vo-tech, and intermediate units who have direct contact with children.</p>	<p>Required reporting within 72 hours of any arrest or conviction of an offense listed in Section 111e that has occurred after September 28, 2011.</p>	<p>PA Child Abuse History Clearance Form (CY-113-UF)</p> <p>PA Criminal Record Check</p> <p>FBI Criminal History Background Check via Cogent Systems</p> <p>PDE reporting form 6004</p>



## APPLIED HEALTH

The Applied Health (AH) program leading to an Associate of Science degree is a cooperative degree program between The Reading Hospital School of Health Sciences (RH-SHS) and Alvernia University. In addition to the Associate of Science degree, graduates will receive a Diploma in Nursing from RH-SHS. The RH-SHS Diploma in Nursing Program is nationally accredited by the Accreditation Commission for Education in Nursing (ACEN) and approved by the Pennsylvania State Board of Nursing.

### **The Reading Hospital School of Health Sciences Mission Statement**

The mission of The Reading Hospital School of Health Sciences is to provide educational programs that develop competent and compassionate professionals capable of providing high-quality healthcare services to individuals, families and communities.

Alvernia University's Applied Health Associate's Degree and The Reading Hospital School of Health Sciences Nursing Program prepares its graduates to:

- Practice as a professional nurse at an entry-level position in a variety of healthcare settings.
- Apply the theory derived from nursing and supportive disciplines to implement the nursing process to assist individuals and groups to meet their healthcare needs.
- Utilize effective communication to establish therapeutic relationships to meet the healthcare needs of individuals and groups within the community.
- Assist individuals and groups to achieve wellness through the use of health teaching.
- Provide nursing care in a responsible, accountable manner within the ethical and legal framework of nursing.
- Collaborate with healthcare professionals utilizing leadership and management theory to coordinate healthcare in a variety of settings.
- Assume accountability, self-direction, and commitment for professional growth through continuing education.
- Respond on a personal and professional level to changing healthcare issues of society by participating in community and professional activities and organizations.

### **Admission Requirements:**

The AH program student admission is the responsibility and at the discretion of the RH-SHS. Admission standards meet and/or exceed Alvernia University's admission standards. Admission to the AH program is competitive and the selection of students will be based on personal composition, academic ability,

references, interview performance, aptitude tests, writing samples, and previous healthcare experiences. Refer to the RH-SHS Admission Office for details.

## **APPLIED HEALTH PROGRAM LEADING TO AN ASSOCIATE OF SCIENCE DEGREE**

<b>Minimum Credits:</b>	<b>89</b>
<b>Total AH Credits:</b>	<b>50</b>
<b>General Education/Core</b>	<b>39</b>

**Required AH Courses:** AH 100, 101, 102, 200, 201

**Related Requirements:** The following are required as part of or in addition to the General Education/Core: BIO 107, 117, 108, 118, 216, 220, 410, PSY 101, 208, COM 101, THE 210, PHI 105, Culture and Language (COM 213 recommended), Creative Expressions (MUS 220 recommended).

### **COURSE DESCRIPTIONS**

AH 100                    12 credits

Foundations of Nursing Care

This course prepares the student to provide safe nursing care to an adult client by incorporating the concepts identified in the course. The concepts of comfort, elimination, grief/loss, mobility, nutrition, oxygenation, sensory perception, thermoregulation and tissue integrity are introduced. The interrelated concepts of communication/collaboration, advocacy, evidence-based practice, health promotion, informatics/technology, quality improvement, safety and teaching/learning are introduced and incorporated throughout the course. The concept of managing care provides the framework to meet the basic needs of the individual across the lifespan. Structured clinical and laboratory experiences enable the student to apply the basic knowledge and skills learned in the classroom. Co-requisite: AH 101.

AH 101                    2 credits

Professional Nursing Communication

This course introduces the student to the concepts that provide the foundation for nursing practice. Professionalism and how it is applied to nursing is addressed. The image of nursing and its influence on the profession is presented. The student is introduced to the nurse's professional role of communicator. Information that enhances the development of self-awareness, non-judgmental acceptance of others, communication skills and collaboration skills will be presented. The impact of informatics on nursing care is explored. Co-requisite: AH 100.

AH 102            12 credits

Family/Individual Nursing

This course prepares the student to provide safe nursing care to clients across the lifespan by incorporating the concepts identified in the course. The concepts of Addiction, Cognition, Culture, Diversity, Individual, Family, Mood/affect and Stress/coping are introduced in the course. The concepts of comfort, elimination, grief/loss, mobility, nutrition, oxygenation, sensory perception, thermoregulation and tissue integrity are reinforced. The interrelated concepts of communication/collaboration, advocacy, evidence-based practice, health promotion, informatics/technology, quality improvement, safety and teaching/learning are incorporated throughout the course. The concept of managing care provides the framework to meet the basic needs of the individual across the lifespan. Structured clinical and laboratory experiences enable the student to apply the knowledge and skills learned in the classroom. Prerequisite: AH 101.

AH 200            12 credits

Acute Care/Complex Nursing

This course prepares the student to provide safe nursing care to adult clients by incorporating the concepts identified in the course. The concepts of Acid/base, Cellular Regulation, Fluid/Electrolytes, Inflammation, Metabolism and Perfusion are introduced in the course. All previously introduced concepts are reinforced. The interrelated concepts of communication/collaboration, advocacy, evidence-based practice, health promotion, informatics/technology, quality improvement, safety and teaching/learning are incorporated throughout the course. The concept of managing care provides the framework to meet the basic needs of the individual. Structured clinical and laboratory experiences enable the student to apply the knowledge and skills learned in the classroom. Prerequisite: AH 102.

AH 201            12 credits

Nursing Leadership/Critical Care

This course prepares the student to provide safe nursing care to adult clients with complex health issues, and to transition to the professional role by incorporating the concepts identified in the course. The concepts of Ethics, Health Policy, Healthcare System and Intracranial Regulation are introduced in the course. All previously introduced concepts are reinforced. The interrelated concepts of communication/collaboration, advocacy, evidence-based practice, health promotion, informatics/technology, quality improvement, safety and teaching/learning are incorporated throughout the course. The concept of managing care provides the framework to meet the basic needs of the individual. Structured clinical and laboratory experiences enable the student to apply the knowledge and skills learned in the classroom. Prerequisite: AH 200.

## ART

Alvernia offers a minor in art that provides students with the foundation needed to perceive and uniquely express their knowledge about the world. The study of art prepares students for independent critical thinking and provides inspiration for personal creativity. Basic skills acquired relate to all areas of curriculum and professional endeavors, and a minor in art may be well suited to students majoring in communication, education, general studies, history, marketing, occupational therapy or psychology. Courses in digital art have been added to the program.

**Art Minor Requirements:** 21 credits  
ART 101, 103, 251, and either 215 or 217.

Three courses from: ART 106, 201, 208, 209, 215 or 217, 281, 307, 308, 340, 390 (sculpture).

### COURSE DESCRIPTIONS

ART 101            3 credits

Drawing I

Applied study of drawing with emphasis on foundational elements, composition, materials, processes and aesthetic perception.

ART 103            3 credits

Color and Design

Study of the elements and principles of design and experimentation in the physical, psychological and theoretical use of color as applied to two-dimensional design. Students will learn to conceptualize, visualize and organize original designs.

ART 105            3 credits

Art Appreciation

An introductory course in art where visual manifestations of ideas are studied from pre-historic times through the present. Students will explore the development of social, political, philosophical, and theological ideas as they relate to art. Does not satisfy the art minor.

ART 106            3 credits

Design and Crafts

This course will encourage students to broaden and develop their creative skills, with techniques used in such crafts as weaving, scratchboard, carving, printing, mosaics and clay. Emphasis will be on creative thinking and the technique of using various materials for final presentation.

ART 115            3 credits

### Figure Drawing

This introductory course in figure drawing teaches the student visualization of the human figure through various expressive drawing techniques as students learn basic anatomy. Students will explore the human figure from abstraction of form to physical representation. Students learn observational skills to better understand proportion, movement, volume, mass, space, depth, format, composition, and balance relative to the human figure and basic anatomy. Students will work from a selection of nude models both male and female.

ART 122            3 credits

### Intro to Digital Photography

A study of the history of photography as an art form. Includes hands-on introduction to the study of the creative process through the use of digital photography.

ART 124            3 credits

### Digital Drawing

Introductory course combining a strong traditional drawing foundation with direct to digital content creation. Students use Adobe software, pen tablets, and digital capture along with paper and traditional media to develop their observation and drawing ability.

ART 130            3 credits

### Intro to Digital Design

In this digital studio, students will use the latest version of software to explore practices that are explored on a two-dimensional plane or take place in the fourth-dimension. A wide range of creative assignments focus the student on the use of visual elements such as line, shape, form, value, color, and texture to be used to communicate graphic ideas all while learning the software.

ART 201            3 credits

### Drawing II

Intermediate level course providing opportunities for further work in drawing with emphasis on achieving individual self-expression. Prerequisite: ART 101 or permission of instructor.

ART 208            3 credits

### Painting I

An introductory course in painting using the traditional medium of oil. Basic studies in the formal and technical process of image arrangement and techniques are explored. Direct observation assignments and historical trends and painting methods are experienced. Students are encouraged to enroll if they have had some experience in drawing or two-dimensional design.

ART 209            3 credits

Basic Photography

Study of the creative process using photographic principles and techniques, including black and white darkroom procedures. 35mm camera with manual capabilities required.

ART 215            3 credits

Art: Prehistoric through Middle Ages

Chronological approach to historical development of painting, sculpture, and architecture from prehistoric times through Middle Ages. Form and content of social, religious, and philosophical references are studied.

ART 217            3 credits

Art: Renaissance to Present

Chronological approach to historical development of painting, sculpture, architecture and crafts from Renaissance to present. Form and content of social, religious, and philosophical references are studied.

ART 230            3 credits

Digital Painting

Introductory creative media arts course combining a strong traditional painting foundation with direct to digital content creation. Students use appropriate software, pen tablets, and digital image capture for rendering digital paintings and creating original 2-D content for print and screen.

ART 235            3 credits

Design with Type

This course introduces students to the principles of typography as a working media of visual communication. Student designs focus on the use of basic letter forms, the relationship between typographic and verbal language, the expressive characteristics of type, typographic layout, and conceptual thinking.

Prerequisite: Some experience with Adobe Illustrator and/or Photoshop programs.

ART 251            3 credits

3-D Design

Introduction to the concepts of 3-D design. Students construct 3-D models from conceptual drawings. Emphasis is on critical thinking, from conceptualization to final product presentation.

ART 281            3 credits

Graphic Design and Illustration

Introduces students to the techniques, software, and materials used in graphic design. Emphasis is on basic design principles, layout, type, and integrity of

image. These elements are used to produce final computer generated graphic solutions such as logos, flyers, ads and newsletters.

ART 307            3 credits

#### Silkscreening

Study of single and multiple screen-printing processes. Emphasis is on aesthetic values, as well as preparation, techniques, color division, procedures, and print editions. Prerequisite: One of the following: ART 101, 103, or permission of instructor.

ART 308            3 credits

#### Painting II

This course is designed to further acquaint each student with a higher level of knowledge and skills needed for development of personal imagery and style. Students will explore new methods and materials beyond those of the oil medium, which will facilitate a more personal vision. Students will also focus on a higher degree of technical and aesthetic quality. Prerequisite: ART 208 or permission of instructor.

ART 319            3 credits

#### Digital Photography

Students will learn the basics of digital photography and editing. A digital camera is required. Prerequisite: ART 209 or equivalent.

ART 340            3 credits

#### Watercolor

The elements and techniques of watercolor painting are applied to both exercises and creative endeavors. Objective, subjective and conceptual approaches will be integrated into the course of study. Prerequisite: One of the following: ART 101, ART 103, ART 208, or permission of instructor.

## ATHLETIC TRAINING

According to the National Athletic Trainers' Association (NATA) a Certified Athletic Trainer (ATC) is a highly educated and skilled professional specializing in athletic healthcare. In cooperation with physicians and other allied health personnel, the athletic trainer functions as an integral member of the athletic healthcare team in secondary schools, colleges and universities, sports medicine clinics, professional sports programs, and other athletic healthcare settings.

The athletic training program is designed to prepare students to take the Board of Certification (BOC) exam. Students who fulfill the degree requirements are eligible to take the BOC exam. Once BOC certified, students are eligible to make application for Pennsylvania State certification. The athletic training program is accredited by CAATE (Commission on Accreditation of Athletic Training Education). The commission is located at: 2201 Double Creek Drive, Suite 5006, Round Rock, TX, (512) 733-9700.

The athletic training program at Alvernia University has a primary purpose of providing students with the intellectual and clinical foundation that will enable them to play an important role in the healthcare of athletes and others involved in physical activity. The athletic training program is committed to giving students the opportunities needed to develop the knowledge, skills and attitudes needed to become highly-qualified allied health professionals in the field of athletic training. Throughout the program, students will gain a breadth and depth of knowledge in the field of athletic training, as well as in the liberal arts. Students will also develop critical thinking skills, as well as gain an appreciation for the profession, and the role of the Certified Athletic Trainer.

### Admission Requirements

Admission requirements of the university must be met before students are able to declare athletic training as their major. Upon completion of the criteria listed below, students must then apply for acceptance to the program (forms are available online at [www.alvernia.edu/academics/professional-programs/athletic-training/index](http://www.alvernia.edu/academics/professional-programs/athletic-training/index)).

- Completion of at least 24 credits with a minimum GPA of 2.50. Courses must include AT 101, 113, 222; BIO 107, 108, 117, 118. (Department chair of the courses taken and program director of athletic training must approve comparable coursework for transfer students).
- Documentation of 50 directed observation clinical hours.
- Formal application and essay, two recommendation forms and a grade of "C" or better in all courses mentioned above.
- Approval of the faculty athletic training selection committee. Entry is limited on a space-available basis.
- Completion of technical standards



Selection criteria for admission into the Athletic Training program are available in the Athletic Training Office and in the Athletic Training Student Policies and Procedures Manual.

Selection criteria include the following (based on selection criteria utilized. A total of 12 points can be accumulated):

1. Overall GPA – Maximum of 4 points

GPA POINTS

3.5 to 4.0 = 4 points

3.0 to 3.49 = 3 points

2.5 to 2.99 = 2 points

(Under 2.5 GPA – Not eligible to apply to the program)

2. GPA for BIO 107, 108, 117, 118; AT 101, 113, 222 – Maximum of 4 points

GPA POINTS

3.5 to 4.0 = 4 points

3.0 to 3.49 = 3 points

2.5 to 2.99 = 2 points

2.0 to 2.49 = 1 point

3. Formal Application and Essay – Maximum of 2 points

Points are determined utilizing specific criteria located and available in the Athletic Training Office.

4. Two Recommendation Forms – Maximum of 2 points (1 point each)

Maximum score on each recommendation = 70

57 – 70 = 1 point

43 – 56 = .8 points

29 – 42 = .6 points

15 – 28 = .4 points

< 15 = .2 points

Admissions grievances: The Student Grievance Policy is included in the Undergraduate Student Handbook.

Acceptance in the program allows students to continue with the athletic training curriculum. Students admitted into the athletic training program must maintain a 2.5 cumulative GPA. Students falling below these levels are reviewed by the program director and placed on probation or possibly dismissed from the program.

When students are formally admitted into the athletic training program, they must meet the following requirements:

- Obtain a Pennsylvania Child Abuse History Clearance form (ACT 151), a Criminal History Record Check (ACT 34), and an FBI Criminal Clearance (ACT 114). All clearances are required upon acceptance into the program and must be renewed yearly. Clearances must be completed prior to beginning any clinical hours – clinical hours begin in the sophomore year. Students must also complete the Background Checks Notification form.
- Submit a completed health record to the Health & Wellness Center, and complete the Authorization to Release Medical Information form.
- Obtain specific immunizations, which include: a Two-step TB Test, Diphtheria/Tetanus Booster, Measles, Mumps and Rubella, and series of Hepatitis B vaccinations, and a Pneumococcal vaccine or waiver.
- Required yearly influenza vaccine or documented refusal.
- Obtain yearly Bloodborne Pathogens and OSHA training and complete the Communicable Disease Policy.
- Maintain current certification in CPR and First Aid.
- Provide transportation for clinical experience off-campus (public or private).
- Provide proof of current health insurance.

### **Sophomore Students**

Must complete a minimum of 50 hours and a maximum of 75 hours as part of AT 250 and a minimum of 50 hours and a maximum of 75 hours in AT 251 working under the supervision of a Preceptor at Alvernia University.

### **Students entering their clinical rotations must:**

- Provide transportation for clinical experience off-campus (public or private).
- Have a Pennsylvania Child Abuse History Clearance (Act 34), a Criminal History Check (Act 151) and an FBI Criminal History Check on file.
- Have a completed health record on file at the Health & Wellness Center.

### **Progression Policies**

- Achievement of a “C” or better in each athletic training (AT) course. Students may repeat/delete only one athletic training (AT) course throughout the athletic training program.
- Students who receive a grade of less than a “C” in an athletic training course may not progress in athletic training courses for which that course is a prerequisite.

## **Transfer Students**

Prospective transfer students are encouraged to view the athletic training program requirements. Consultation with the Admissions Department and the program director are required.

A student who transfers to Alvernia University with the intent to pursue the athletic training major must start in the Pre-Professional Phase of the major. In addition, the transfer student must complete at least one full semester in the Pre-Professional Phase to be eligible for acceptance into the Professional Phase. The student must complete the Professional Phase and all other requirements for graduation from Alvernia University.

Acceptance or non-acceptance of transfer courses to Alvernia University in place of the following courses will be at the discretion of the Alvernia University Registrar in consultation with the athletic training program director: any course that has the AT prefix, BIO 107, BIO 108, BIO 117, BIO 118, BIO 211, and BIO 216. Students seeking transfer credit for any of these courses may be asked to demonstrate the appropriate cognitive and psychomotor knowledge, skills, and abilities by passing a comprehensive exam. Should the Registrar and the program director determine that any athletic training courses/credits taken previously will not transfer, the prospective transfer student may be required to remediate the course work at Alvernia University. All courses at Alvernia University with the AT prefix that are 300-level or higher and the related clinical education experiences must be taken at Alvernia University. For more information regarding these requirements, please contact the program director.

## **ATHLETIC TRAINING**

Major: 67 credits

AT 101, 113, 206, 209, 222, 250, 251, 301, 310, 311, 321, 340, 410, 411, 433, 440, 445, 446.

Related Areas: 30 credits

BIO 107, 108, 117, 118, 208, 211, 217; MAT 208; PSY 101, 208; THE 210.

## **COURSE DESCRIPTIONS**

AT 101                    3 credits

Introduction to Athletic Training

This course is intended to introduce students to the profession of athletic training and sports medicine; including history, function, career opportunities and professional standards of the national (NATA) and state (PATS) organizations, as well as the educational objectives of the athletic training major. Facilities where athletic training is practiced, types of clients treated, equipment used, and the various relationships with other healthcare professionals are discussed.

Students spend a minimum of 25 observational hours and a maximum of 30 observational hours with a preceptor at the university's facilities.

AT 113                    3 credits

#### Emergency Response

Provides the knowledge, skills, and confidences to help a person who is a victim of injury or sudden illness. Students learn how to assess a person's condition and how to recognize and care for life-threatening emergencies. Students will also receive OSHA training in the handling of blood borne pathogens. Students spend a minimum of 25 observational hours and a maximum of 30 observational hours with a preceptor at the university's facilities.

AT 206                    4 credits

#### Therapeutic Exercise

Study of the basic types of exercises applied in the treatment of disease and injury. Emphasis is on the teaching aspect of working with the physically active client. Introduction to the physiological effects of exercise and the basic principle of joint range of motion, manual muscle testing and functional activities. Use of mechanical exercise equipment is also taught, stressing safety during exercise, signs of over dosage and use of proper body mechanics. Correct and incorrect exercise procedures as well as indications and contraindications for different exercise are reviewed. Student will acquire skills in performing goniometric measurements. Three hours lecture and two hours lab.

Prerequisites: BIO 107, 108, 117, and 118.

AT 209                    4 credits

#### Therapeutic Modalities and Treatment Techniques

Students are introduced to theory, application, and treatment of therapeutic modalities including: moist heat, cryotherapy, paraffin, infrared, ultraviolet, fluidotherapy, spinal traction, ultrasound, magnetic therapy, hydrotherapy, and diathermy. Indications, contraindications, and precautions are emphasized. This course provides the knowledge, skills and values that the entry-level certified athletic trainer must possess to plan, implement, document, and evaluate the efficacy of therapeutic modalities in the treatment of injuries and illnesses of athletes and others involved in physical activity. Three hours lecture and two hours lab. Prerequisites: BIO 107, 108, 117, and 118.

AT 222                    4 credits

#### Care & Prevention of Athletic Injuries

Introduction to the concepts of injury prevention, recognition and management, as they relate to athletics. Integrates three hours lecture and two hours lab weekly. Prerequisite: permission of instructor.

AT 250                    5 credits

#### Recognition and Evaluation of Athletic Injuries I

Students taking this course will be able to conduct thorough clinical injury/illness evaluation and determine the nature, type and severity of injuries for the basis of providing First Aid/Emergency Care, referring for medical diagnosis/treatment and follow up treatment. Major focus is on the upper extremities. A minimum of 50 and a maximum of 75 hours working with a preceptor at the university's facilities is required. This course requires three hours lecture and two hours lab. Prerequisite: formal admission to the AT program.

AT 251                    5 credits

#### Recognition and Evaluation of Athletic Injuries II

Students taking this course will be able to conduct thorough clinical injury/illness evaluations and determine the nature, type and severity of injuries for the basis of providing First Aid/Emergency Care, referring for medical diagnosis/treatment and follow up treatment. Major focus is on the lower extremities. A minimum of 50 and a maximum of 75 hours working with a preceptor at the university's facilities is required. This course requires three hours lecture and two hours lab. Prerequisite: formal admission to the AT program.

AT 301                    3 credits

#### Advanced Athletic Training Procedures

Advanced rehabilitation science procedures. Movement science focuses on a study of normal motor control and on movement abilities. This course discusses current applied neurosciences concepts to allow students to practice the application of motor learning principles to rehabilitation. The electro-therapy unit includes an in-depth discussion of electro-physiology, the instrumentation and application of various types of transcutaneous electrical stimulation. Integrates two hours lecture and two hours lab weekly. This course meets the Writing Enhanced requirement. Prerequisite: BIO 107, 108, 117, 118, 211.

AT 310                    5 credits

#### Athletic Training Clinical I

Course includes both seminar and practical application. Students spend a minimum of 200 hours and maximum 320 hours working with a preceptor at the university's facilities or an affiliated site. Major focus is on lower extremities. Students spend 10 hours working with a physician in an orthopedic office setting. Prerequisite: AT 206, 209, 251 or permission of the Program Director.

AT 311                    5 credits

#### Athletic Training Clinical II

Course includes both seminar and practical application. Students spend a minimum of 200 hours and maximum 320 hours working with a preceptor at the

university's facilities or at an affiliated site. Major focus is on upper extremities. Prerequisite: AT 310 or permission of Program Director.

AT 321                    2 credits

Strength and Conditioning Techniques for Rehabilitation Professionals

Course includes a functional, scientific approach to the design of strength and conditioning programs. Includes testing protocols used for measuring fitness, body composition, posture, flexibility, muscular strength, power, speed, and endurance. General fitness, wellness, and sports nutrition concepts and dietary supplements will be discussed. Course includes 1 hour of lecture and 2 hours of lab weekly.

AT 340                    3 credits

Organization and Administration of Athletic Training

Organization and administration of athletic training programs as identified by the National Athletic Trainers' Association, in the "Competencies in Athletic Training" document. Topics include licensing, continuing education requirements, record keeping, purchasing and maintenance of equipment and facilities, and policies and procedures for the operation of athletic training program. Practical experiences are interwoven throughout the course.

AT 410                    5 credits

Athletic Training Clinical III

Course includes both seminar and practical application. Students spend a minimum of 200 hours and maximum 320 hours working with a preceptor at the university's facilities or an affiliated site. Major focus is on contact sports and general medical conditions and disabilities. Students spend a minimum of 10 observational hours and a maximum of 15 observational hours with a preceptor at a general medical facility. Prerequisite: AT 310 and 311, or permission of the Program Director.

AT 411                    5 credits

Athletic Training Clinical IV

Course includes both seminar and practical application. Students spend a minimum of 200 hours and maximum 320 hours working with a preceptor at the university's facilities or an affiliated site. Major focus is on psychosocial intervention and counseling techniques. Prerequisite: AT 310 and 311, or permission of the Program Director.

AT 433                    3 credits

Exercise Physiology

Study of the application of physiological principles of human performance to sports/exercise including theories and principles for improving performance. Examination of current literature and research. Focus on examples for athletic training and coaching application. Prerequisites: BIO 107, 108, 117, and 118.

AT 440                    2 credits

#### Pharmacology in Athletic Training

Study of pharmacologic applications for injury/illness to athletes and the physically active. Includes indications, contraindications, interactions of medications, and relevant governing regulations.

AT 445                    3 credits

#### Senior Capstone I

This course explores quantitative and qualitative research methodologies used in athletic training and evaluation of published research in the field. The capstone activity involves designing a research project and presenting it for Institutional Review Board approval. Basic format and organization issues are covered, along with how to identify a research topic, access resources, and write a literature review. Prerequisite: MAT 208 and senior status.

AT 446                    3 credits

#### Senior Capstone II

This senior level capstone class involves the completion of a research project developed and designed in the previous course, AT 445. The student will carry out the research, analyze the data, and present the project. This course will cover content related to preparation for the BOC examination as well as professional development and responsibilities of the entry-level athletic trainer, including continuing education and ethical responsibilities. Prerequisite: AT 445.

## **BEHAVIORAL HEALTH**

The behavioral health degree is one of the most versatile degrees found at the college or university level. It was established to provide a core of expertise for those individuals seeking administrative, counseling and casework positions in areas such as addiction studies, mental illness and child welfare. This unique yet expansive major is the outgrowth of community agencies needing to employ individuals with a broader base of expertise. This degree, with its different areas of concentration, is designed to build the professional competence needed to address today's various and complex issues.

Students who major in behavioral health will find their educational experience both enriching and enjoyable. Through the use of community-based adjunct faculty, "real-time" information and experience is presented to the student, allowing for lively classroom discussion and bringing to life traditional textbook material. Our faculty includes national educators and published professionals, as well as top-level administrators who are actively involved with changes occurring in behavioral healthcare. Students are able to complement their

classroom education with two field placements in licensed or state-approved programs, facilities and/or agencies. Such placements give the behavioral health major valuable exposure to the work environment prior to graduation.

Students intending to pursue a career as a licensed professional counselor will need to meet additional graduate and licensure requirements. At Alvernia University, students intending to continue into the Master of Arts in Clinical Counseling program are required to take PSY 101, PSY 250, and a statistics or research methods course.

## **Areas of Concentration:**

### **Addiction Studies Concentration**

Alvernia's degree focusing on addiction studies was one of the first of its kind in the United States. Students who pursue this concentration find the subject area extremely relevant, challenging and rewarding in their quest to understand one of society's major problems.

*NOTE: All courses in the addiction studies concentration are approved as containing the content required by the Pennsylvania Certification Board (PCB). Students completing these requirements can contact the Certification Board for specific steps related to the certification process and the examination.*

### **Mental Health Concentration**

This area of concentration was established to provide a core of expertise and experience for students looking to find employment immediately after graduation in mental health clinics and centers. The concentration increases job readiness through its addiction studies component.

### **Child Welfare Concentration**

This challenging yet rewarding area will provide students with essential knowledge to address the problem of child maltreatment. Abuse/neglect investigation, in-home services, out-of-home placement, adoption, and parenting education are just a few of the multiple employment opportunities that await graduates with this area of concentration.

### **Behavioral Health: 54 credits**

BH 201, 202, 204, 230, 303, 305, 330, 404, 405, 406, 407; PSY 101.

A grade of "C" or higher is required in all BH courses. The behavioral health program also requires that students complete a Child Abuse Clearance, a PA Criminal Record Check and an FBI clearance including fingerprinting. Any arrest and/or conviction may/may not prohibit a BH student from participating in Practicum coursework, gaining future employment or continuing in graduate work toward licensure. Practicum-Specific Placement: Students will be required to complete two practicums within their area of concentration. Field placements



will occur at facilities that are licensed or approved by the State of Pennsylvania. These additional 12 credits (and experience) will be critical in defining the student's area of expertise (i.e., addiction studies, mental health, child welfare).

**Choose any four courses within one of the following three concentrations:**

**Addiction Studies:** BH 203, 220, 240, 304, 306, 400, 402, 411/413 (as appropriate), 414.

**Mental Health:** BH 203, 240, 300, 304, 306, 400, 402, 411/413 (as appropriate), 414.

**Child Welfare:** SW 201, 202, 301; CJ 101, 175, 272 or 274, BH 300, 402, 411/413 (as appropriate).

**Related Area:** 6 credits  
PSY 208, 215

**Minor:** 21 credits  
BH 201, 202, 203, 303, 330 and two approved electives from a specific area of concentration.

**Certificate Program:** 21 credits  
BH 201, 202, 204, 303, 330 and two approved electives from a specific area of concentration.

## COURSE DESCRIPTIONS

BH 102                    3 credits

Substance Abuse and Society

An introductory course designed specifically for students not majoring in addiction studies. Offers a blend of information and exercises to assist the student in developing necessary skills for living in a world where alcohol, tobacco, medicines and other drugs are readily available. Involves a variety of individual and small group educational activities. Satisfies social science requirement.

BH 201                    3 credits

Foundations of Addictions

Concepts from psychopharmacology, genetics, counseling theory, law, medicine, sociology, and other disciplines are applied to provide a basic understanding of the practical issues surrounding the prevention and treatment of substance abuse and dependence. This course, intended for behavioral health majors, also requires that student complete a Child Abuse Clearance, a PA Criminal Record Check, and an FBI clearance including fingerprinting. Any

arrest and/or conviction may or may not prohibit a BH student from participating in Practicum coursework and gaining future employment.

BH 202                    3 credits

### Origins of Mental Illness

This course will introduce students to the fundamentals of mental illness and psychiatric disorders. Particular emphasis will be placed on investigation of the etiological factors that cause mental illness, as well as the common protocols used in their treatment. Students will receive a comprehensive perspective on: anxiety disorders, mood disorders, disorders of childhood and adolescence, schizophrenia and other psychotic disorders, obsessive-compulsive disorders, and other disorders related to the field of mental health treatment.

BH 203                    3 credits

### Neuropharmacology

The primary goal of this course will be to educate students to the biochemical aspects of the human brain and the influence of chemicals within the brain. Students will become familiar with the neurological implications of drug abuse and its effects on brain function. This course will also focus on the most commonly utilized medications in the treatment of depression, psychosis, mania, schizophrenia, and other related psychiatric disorders. Prerequisite: 100 level Human Biology; BIO 109 preferred.

BH 204                    3 credits

### Theories of Counseling and Psychotherapy

Major theoretical counseling orientations are examined with an emphasis on how each of these theories applies to the treatment of addiction and mental health disorders. Theories and types of therapeutic approaches considered include: Freudian Theory, Person-Centered Theory, Gestalt Theory, Reality Therapy, Rational-Emotive Therapy and other cognitive behavior theoretical approaches. This course meets the Writing Enhanced requirement.

BH 220                    3 credits

### Prevention and Intervention Services

Introduction to the current prevention and intervention services that substance abuse professionals are providing within the contexts of schools, the criminal justice system and the general community. Specific services examined include: Driving Under the Influence (DUI) programs, programs for juvenile offenders and peer counseling programs.

BH 230                    3 credits

### Assessment and Evaluation

Students are introduced to the various instruments used in the assessment and evaluation of addiction and mental illness, and the interviewing skills that facilitate this process. Students will examine the components of clinical

reasoning that are utilized in determining the various levels of counseling and treatment interventions. Prerequisite: BH 201 and BH 202.

BH 240                    3 credits

#### Addictive Behaviors

This course focuses on compulsive behaviors sometimes referred to as “the other addictions.” The origins and treatment of these behaviors will be examined from a biological, psychological, and spiritual perspective. Areas covered include love and dependent relationships, sexual addiction, workaholism, compulsive gambling and eating disorders.

BH 300                    3 credits

#### Case Management

This course integrates case management theory and practice as it is applied to individuals, agencies, and communities. Students will learn about core case management components, and will gain valuable knowledge in the areas of assessing, planning, linking, monitoring, recording, and evaluating client care. Issues of diversity, community resources and the various arenas of case management will be explored. Actual case examples will be discussed and reviewed using a “best practices” model. Focus will be placed on the role of case management in mental health, child welfare and addiction treatment programs in Pennsylvania.

BH 303                    3 credits

#### Counseling Techniques I

The basic elements of interpersonal communication such as attending, reflection of feeling, paraphrasing, summarizing, self-disclosure, and interpretation are emphasized. Various styles are also explored with regard to appropriateness of use with the various client populations.

BH 304                    3 credits

#### Counseling Techniques II

Skills developed in Counseling Techniques I are built upon and applied to various behavioral health case studies. In addition, specific techniques such as relaxation training, assertiveness training and family intervention are introduced. Prerequisite: BH 303.

BH 305                    3 credits

#### Group Counseling I

The dynamics of group interaction and the role of the group therapist are examined. Emphasis is placed on understanding the special demands on the group leader which are unique to group therapy with behavioral health clients.

BH 306                    3 credits

Group Counseling II

Skills developed in Group Counseling I are expanded upon and further developed. Skills are applied in simulated group process. Participants co-lead simulated group sessions, review videotapes, critique and reflect on their performance and then revise performance. Prerequisite: BH 305.

BH 330                    3 credits

Crisis Intervention

This course focuses on Crisis Theory, teaching the student how to more effectively identify and manage crisis situations; how to clearly and quickly recognize the behaviors which may precede certain crisis situations; and how to implement proven intervention techniques designed to deescalate volatile or potentially dangerous situations. An overview of voluntary and involuntary commitments will be presented, along with proven strategies for safely addressing these circumstances. Management of counselor stress and other legal and ethical issues will be discussed. Prerequisites: PSY 101, BH 201.

BH 400                    3 credits

Marriage and Family Counseling

This course is designed to acquaint the student with the various theoretical schools of thought associated with family and family-systems counseling. The content will provide a review and practice of the basic techniques associated with family counseling. Students will be provided with various video examples of those techniques practiced by known experts in the field, and students will have an opportunity to practice the skills they are learning. Prerequisite: PSY 101, BH 201.

BH 402                    3 credits

Management of Human Service Agencies

With a primary focus on the inner workings and structures of human service agencies, students will be afforded an opportunity to broaden their understanding of the administrative aspects of drug and alcohol, mental health, and child welfare services. Funding, federal and state regulations, licensing, credentialing, and the changing environment of managed care will be some of the primary issues addressed in this course.

BH 404                    3 credits

Practicum Field Experience

The student will participate in a fieldwork site in a prevention/ intervention/ treatment setting in the area of behavioral health, consistent with the student's area of concentration (i.e. addiction, mental health, or child welfare) or in a generalist behavioral health practice. Field placements will occur at facilities that are licensed or approved by the Commonwealth of Pennsylvania. The fieldwork practicum promotes the integration of classroom and experiential

learning in the development of clinical reasoning, reflective practice and professionalism. This practicum is a 100-hour experience (3 credits). Ideally each 3-credit practicum experience will be taken in conjunction with another 3-credit practicum course, with the entire experience amounting to 6 credits or 200 hours. Prerequisite: 24 credits in BH.

BH 405                    3 credits

#### Practicum Field Experience

The student will participate in a fieldwork site in a prevention/intervention/treatment setting in the area of behavioral health, consistent with the student's area of concentration (i.e. addiction, mental health, or child welfare) or generalist behavioral health practice. Field placements will occur at facilities that are licensed or approved by the Commonwealth of Pennsylvania. This fieldwork practicum promotes the integration of classroom and experiential learning in the development of clinical reasoning, reflective practice and professionalism. This practicum is a 100-hour experience (3 credits). Ideally, each 3-credit practicum experience will be taken in conjunction with another 3-credit practicum course, with the entire experience amounting to 6 credits or 200 hours. Prerequisite: 24 credits in BH.

BH 406                    3 credits

#### Practicum Field Experience

This field practicum will require the student to choose a suitable and approved field placement site that is consistent with their area of concentration (i.e., addiction, mental health, or child welfare) or generalist behavioral health practice. Field placements will occur at facilities that are licensed or approved by the Commonwealth of Pennsylvania. This fieldwork practicum promotes the integration of classroom and experiential learning in the development of clinical reasoning, reflective practice and professionalism. This field practicum is a 100-hour experience (3 credits). Ideally, each 3-credit practicum experience will be taken in conjunction with another 3-credit practicum course, with the entire experience amounting to 6 credits or 200 hours. Prerequisite: 24 credits in BH.

BH 407                    3 credits

#### Final Field Practicum

This final field practicum will require the student to choose a suitable and approved field placement site that is consistent with their area of concentration (i.e., addiction, mental health, or child welfare) or generalist behavioral health practice. Field placements will occur at facilities that are licensed or approved by the Commonwealth of Pennsylvania. This capstone fieldwork practicum promotes the integration of classroom and experiential learning in the development of clinical reasoning, reflective practice and professionalism. This field practicum is a 100-hour experience (3 credits). Ideally, each 3-credit practicum experience will be taken in conjunction with another 3-credit

practicum course, with the entire experience amounting to 6 credits or 200 hours. Prerequisite: 24 credits in BH.

BH 411                    3 credits  
Counseling Special Populations

Issues relevant to working with members of special populations are examined. Impact of group membership on individual identity is explored. In addition, special populations such as the disabled, adolescents, elderly, women, sexual minorities, ethnic groups, and various professional groups (such as physicians, clergy and lawyers) are considered. This course fulfills the human diversity graduation requirement.

BH 413                    3 credits  
Special Issues Seminar

This course will address current issues within the field of addictions and mental health treatment. Possible topics include: the role of gender and culture in therapeutic relationships, bereavement, HIV, adolescent issues, specialized testing, the “cultures” of addiction and recovery, family issues, life span issues related to behavioral health and program/outcomes assessment. These courses are offered to broaden the student’s experience, as well as assuring that advancements and changes have a mechanism to be addressed within the program structure. Course may be repeated for credit with different topics. *Depending on the issue(s) identified, this course can be utilized as an elective for one, two, or all three areas of concentration.*

BH 414                    3 credits  
Emotional and Behavioral Pathology

The goal of this course is to challenge the student to develop an in-depth and working knowledge of the Diagnostic and Statistical Manual (DSM) classification of mental disorders. Knowledge will be expanded from a prerequisite course Origins of Mental Illness and students will learn to utilize the current DSM to formulate multi-axial diagnostic impressions of mental disorders. The course emphasizes a focused and therapeutic approach to conducting diagnostic interviews and assessments while learning to identify and classify presenting psychiatric symptomatology and record their findings in a professionally acceptable format. Prerequisite: BH 202.

## BIOLOGY

The biology program aims to develop, in students, an appreciation for and knowledge of the fundamental principles of biology necessary to prepare them for: professional schools, such as medical, dental and pharmaceutical science (See the LECOM Partnership below); medical laboratory science; graduate study and research; and those techniques used in teaching biological science at the secondary school level.

**Biology:** 80-89 credits

**Core:** 28 credits

BIO 103, 104, 221, 303/309, 304/311, SCI 402; either SCI 480 or SCI 406/407.

**Related Area:** 34-36 credits

CHE 104/110, 105/111, 107, 201/210, 202/211; PHY 200/201; MAT 209, 220, 230, 131 recommended.

**Electives:** 18-24 credits

BIO 115/116 or 107/117 & 108/118, 205, 208, 211, 216, 320, 405, 409, 410.

Students are encouraged to conduct an independent research project. Permission from the instructor is required.

**Minor:** 17 credits

A minor in biology consists of eight credits at the 100 level (either BIO 103 and 104 or BIO 107/117 and 108/118); at least three credits at the 200 level; and at least six credits at the 300/400 level.

An Environmental Biochemistry major and minor can be found under the Chemistry section of this catalog that provides an integrated experience for students interested in the chemistry, biology, and sustainability as it relates to the environment.

### **Doctor of Physical Therapy (DPT) Program:**

The biology major can be followed as a 3+3 year curricular track leading to potential matriculation into the DPT Program in the senior year. That biology curricular track and the 8 semester plan for the 3+ 3 year curricular track are specifically detailed and differ from the 8 semester plans for the 4 year undergraduate major in biology. For further information about the accelerated 3+3 year biology/DPT Program curricular track, visit the Doctor of Physical Therapy Program homepage at <http://www.alvernia.edu/dpt> or contact the DPT Program Director, Dr. Christopher Wise, at [christopher.wise@alvernia.edu](mailto:christopher.wise@alvernia.edu).

**Biology Secondary Education Certification**

Secondary Education (7-12) Certification in Biology can be earned by Alvernia students who first complete their undergraduate degree in Biology and demonstrate content knowledge in this area on Pennsylvania's required Praxis exam in Biology. The following coursework is required and can be started as early as the undergraduate senior year, then completed as part of Alvernia University's post-baccalaureate program:

ED 203, ED 204, MED 505, MED 515, MED 545, MED 574, MED 615, MED 665, MED 670 and MED 672.

**Biology Medical Laboratory Science**

**Emphasis:** 72-73 credits

Alvernia offers an emphasis in medical technology as part of a Bachelor of Science degree program in biology or chemistry.

**Major:** 61-62 credits

BIO 103, 104, 107, 108, 117, 118, 221, 303, 409, 420, 421; 3-4 credits in biology elective.

**Related Areas:** 25 credits

CHE 104, 105, 107, 110, 111, 201, 202, 210, 211, 212; MAT 209.

Alvernia is in the process of seeking accreditation in Medical Laboratory Science from the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). This program will incorporate the didactic preparation and clinical experience in the areas of clinical chemistry, hematology and coagulation, immunology, immunohematology, clinical microbiology and body fluid analysis. Students will attend a clinical experience at an affiliated clinical laboratory. Upon successful completion of both the didactic and clinical components, students will be eligible to sit for the certification examination in Medical Laboratory Science offered by the American Society for Clinical Pathology (ASCP).

**LECOM PARTNERSHIP**

Alvernia University in partnership with LECOM offers an opportunity for students to enter in LECOM's School of Dental Medicine, the Pharmacy School and the Medical College after completion of their degree at Alvernia. Specific guidelines and requirements are available from the Chair of Science and Mathematics.

**COURSE DESCRIPTIONS**

BIO 102                      4 credits

Fundamentals of Biology

Emphasizes important biological concepts and principles common to all living organisms. Topics include the cell, energetics, genetics, physiology, evolution, and ecology. Integrates laboratory and classroom work. Fulfills lab science



requirement for non-science majors. Cannot take BIO 102 and BIO 103 for credit.

BIO 103            4 credits

#### Principles of Biology

Provides a survey of important biological concepts and principles to all living organisms. Topics include prokaryotic and eukaryotic cells, energetic, comparative physiology, evolution and ecology. Integrates laboratory and classroom work. This course is limited to science majors, biology minors, and biology-secondary education majors.

BIO 104            4 credits

#### Zoology

Investigative survey of life processes common in animals. Gas exchange, internal transport, nervous and endocrine control, reproduction, and homeostatic mechanisms are major topics included. Integrates laboratory and classroom work. Prerequisite: BIO 103 or permission of the instructor.

BIO 107            3 credits

#### Human Anatomy and Physiology

Homeostatic mechanisms of the human body with emphasis on structure and function are studied. Gross and microscopic structures are correlated with function of cells, tissues, organs and systems of the body. Major topics include: skeletal, muscular and nervous systems. Three hours of lecture per week. Co-requisite: BIO 117.

BIO 108            3 credits

#### Human Anatomy and Physiology II

Emphasis is on structure and function of endocrine, cardiovascular, respiratory, lymphatic, digestive, urinary and reproductive systems. Gross and microscopic structures are correlated with functions of cells, tissues, organs and systems of the body. Three hours of lecture per week. Co-requisite: BIO 118.

BIO 109            3 credits

#### Human Biology

An introductory course with emphasis on human physiology and the role humans play in biosphere. Application of biological principles to practical human concerns are covered in one semester. Integrates laboratory and classroom work.

BIO 115            3 credits

#### Human Form and Function

A one semester survey of human anatomy and physiology. Discusses all the major organ systems with an emphasis on structure and function. Required for

biochemistry, forensic science, and biology-secondary education students. Available as an elective for biology majors.

BIO 116            1 credit

Human Form and Function Laboratory

Laboratory course accompanying BIO 115 Human Form and Function. Includes both gross and microscopic examination of cells, tissues and organs with a hands-on approach to further develop, reinforce and apply lecture concepts. Required for forensic and biochemistry majors.

BIO 117            1 credit

Human Anatomy & Physiology I Lab

Experimental approach to the study of human anatomy and physiology is used to reinforce lecture concepts. The exercises present the core elements of the subject matter in a hands-on manner. The labs are presented in the same time period the material is being discussed in lecture. One two-hour lab per week. Co-requisite: BIO 107.

BIO 118            1 credit

Human Anatomy & Physiology II Lab

Experimental approach to the study of human anatomy and physiology is used to reinforce lecture concepts. The exercises present the core elements of the subject matter in a hands-on manner. The labs are presented in the same time period the material is being discussed in lecture. One two-hour lab per week. Co-requisite: BIO 108.

BIO 203            3 credits

Biosphere

The course Biosphere studies humans and their interactions with their environment. Topics include ecological principles (the nature of nature), energy and natural resources issues, pollution problems, and threats to the Biodiversity of the planet. Specific consideration will be given to humanity's ability to alter and change nature from historical and current perspectives; and how we can learn to live in harmony with nature. Fulfills lab science in liberal arts core.

BIO 205            4 credits

Botany

Plant anatomy and vital physiological processes are examined. Water regulation, metabolism, growth and reproduction are covered, along with a polygenetic survey of the major plant groups. The importance of plants in the scheme of global ecology is considered. Integrates laboratory and classroom work.

BIO 208            3 credits

Neuroscience for Rehabilitation

Examine structure and functioning of the human nervous system through an integrated analysis of neuroanatomy, neurophysiology and neuropsychology. Emphasizes clinically relevant neuroscience concepts, focusing on application to patient rehabilitation and therapeutic approaches. Prerequisites: BIO 107/117, 108/118 (or co-requisites) or BIO 103, 104.

BIO 211            4 credits

Kinesiology

Study of interaction between muscular and skeletal systems to produce human movement. Student reviews the anatomy and physiology of muscular system and learns the biomechanical influence it has on skeletal system in order to affect joint movement. A study of normal gait and upright posture is also included. Three hours lecture and two hours lab weekly. Prerequisite: BIO 107/117 with a “C” or better.

BIO 216            3 credits

Nutrition

Overview of nutritional requirements of individuals in the healthful state as well as modification of those requirements during illness. Three hours of lecture per semester week. Does not fulfill the lab science core requirement.

BIO 217            3 credits

Principles of Sports Nutrition

An overview of the field of nutrition with emphasis on nutritional requirements, practices, and conditions specific to people engaged in athletic activities. Course intended for students enrolled in the athletic training program and designed to meet competencies published by the National Athletic Trainers; Association. Prerequisites: BIO 107 & 117, 108 & 118, or permission of the instructor.

BIO 220            4 credits

Clinical Microbiology

Study of the morphological and physiological nature of microorganisms and their relationship to humans in both the normal and diseased states. Emphasis on bacteriological techniques such as cultivation, staining, identification, and other techniques important in a clinical setting. Integrates laboratory and classroom work.

BIO 221            4 credits

General Microbiology

An integrated laboratory and classroom course which looks at both the morphological as well as the physiological nature of microorganisms and their relationship to both the normal and the diseased state in humans. Bacteriological techniques such as staining, identification and cultivation are emphasized.

Prerequisites include any one of the following: BIO 103, 104, 107/117, or permission of instructor.

BIO 230                    3 credits

#### Sustainability Principles and Practices

As the opening course to the minor in community and environmental sustainability, students will be introduced to the theory, principles, and practices of sustainability. Approaching sustainability from a systems perspective, students will explore its interdisciplinary nature, including the environmental, social, economic, and cultural components of sustainability as they relate to creating sustainable communities. This course does *not* fulfill the lab science requirement of the general education core.

BIO 232                    3 credits

#### Sustainable Communities: Santo Domingo

Explores awareness, advocacy, and stewardship of communities through cultural, economic and environmental sustainability projects. (Note: This course involves international travel, a course fee, and service learning activities.) This course fulfills the Human Diversity requirement.

BIO 303                    3 credits

#### Genetics

Introduction to Mendelian and Molecular genetics, chromosome transmission during cell division, non-Mendelian Inheritance, variation in chromosome structure and number, DNA structure and replication, genetic linkage and mapping, genetic transfer, gene transcription and translation, gene mutation and repair, DNA technologies, evolution and cancer. Prerequisites: BIO 103 or instructor permission. Co-requisite: BIO 309.

BIO 304                    3 credits

#### Cell Biology

This course covers major aspects of eukaryotic animal cell biology, with an emphasis on understanding the molecular processes that occur at the subcellular level. Topics include a review of basic cellular composition and fundamentals of metabolism, followed by more complex topics including regulation of eukaryotic gene expression, protein processing and transport, cytoskeleton structure and function, cell signaling, cell cycle regulation, cell death, stem cell biology and cancer. Includes a strong focus on experimental techniques and approaches that are used in modern cell and molecular biology research. Three hours of lecture per semester week. Prerequisites: BIO 103; CHE 105, 202. Co-requisite: BIO 311.

BIO 309            1 credit

Genetics Laboratory

Study of meiosis and mitosis, monohybrid and dihybrid Mendelian inheritance using plants and *Drosophila*, alcohol tolerance in *Drosophila*, DNA extraction, amplification and electrophoresis separation, DNA fingerprinting and Bacterial transformation experiments. Co-requisite BIO 303.

BIO 311            1 credit

Cell Biology Laboratory

This course provides an introduction to the laboratory methods and techniques employed in the study of mammalian cells in culture. Students experiment with *in vitro* cell culture techniques including cell quantitation, growth curve analysis, microscopy (phase contrast and fluorescence), cellular differentiation and gene expression analysis through participation in class projects that span the semester. These projects are designed to provide an experiential course-based research experience that highlights the types of experiments and techniques that are performed in the first of cell and molecular biology. Three hours of laboratory per semester week. Co-requisite: BIO 304.

BIO 315            3 credits

Forensic Medicine

Provides an understanding of the basic scientific, ethical and legal principles that are relevant to the practice of forensic medicine. Students will be exposed to post-mortem examination including issues related to dealing with bereaved relatives of a deceased person or victim of crime. An understanding of basic human anatomy and physiology is expected. Graphic photos and/or attendance at a forensic autopsy will be included. Prerequisites: BIO 115 and 116.

BIO 320            4 credits

Ecology

This 4-credit lecture/laboratory course examines the ecological and evolutionary basis of natural systems from a hierarchical perspective. The major topics covered include: population and community ecology, interactions in communities, and ecosystem functions. Prerequisites: BIO 103, 104 or permission of the instructor.

BIO 325            3 credits

Environmental Law & Policy

Development of sound public policy on environmental quality and sustainability depend greatly upon effective communication of biological and chemical principles and research to policy and lawmakers. This course is intended to provide students interested in environmental biology and chemistry with an overview of the current state of environmental law and policy, the processes involved in environmental law and policy development, and highlight emerging

issues, which will demand collaboration of biologists, chemists and policymakers for resolution. Does not fulfill lab science requirement.

BIO 330                    2 credits

#### Biotechnology

Introduces students to some of the basic and classical research techniques that are used in the biological sciences and familiarizes them with some of the equipment that is routinely used. Prerequisites: BIO 103, 104 or 115; CHE 104, 105, 201 or permission of the instructor.

BIO 401                    4 credits

#### Vertebrate Physiology

Provides an in depth look into how the body works. Course considers the molecular and physical principles guiding functions of the body. Focus is on understanding basic concepts and applying them to major vertebrate systems. Topics include: respiration, circulatory system, nervous system, urinary system, muscles and more. We will learn about how the body normally works by seeing how it functions after inadvertent experiments by nature-diseases. We will also consider how different species have adapted to their environments to solve the problems inherent to life on earth. Integrates laboratory and classroom work. Prerequisite: BIO 103.

BIO 405                    3 credits

#### Pharmacology

Major concepts center around the physiological actions of drugs. Topics to be covered include the survey of major classes of drugs used in clinical therapeutics; prototype drugs developed for selected purposes; toxic interactions; and the physiological mechanism by which drugs produce their effects. Three hours of lecture per semester week. Prerequisites: 6 credits of biology or permission of instructor.

BIO 409                    3 credits

#### Immunology

Introduction to fundamental concepts of immune response. Principles relating to clinical immunology are discussed in terms of underlying experimental studies. Immunologic reactions and ideas on the function of the immune system are explained. Three hours of lecture per semester week. Prerequisites: BIO 104, 304, and CHE 105, or permission of instructor.

BIO 410                    3 credits

#### Pathophysiology

Effects of internal and external stressors on body functions are examined. Normal human physiological principles and homeostatic mechanisms are reviewed. Genetic and nutritional aspects are integrated into the discussion of

disease. Three hours of lecture per semester week. Prerequisites: BIO 107/117, 108/118 or permission of instructor.

BIO 420            16 credits

#### Medical Laboratory Science Clinical I

This course is a structured educational experience in a hospital facility consisting of lectures, conferences, enrichment experiences, reading assignments, examinations, unknowns and clinical laboratory rotations through the following departments: blood bank, chemistry, coagulation, hematology, microbiology, serology, urinalysis, and histology. Lab operations such as ethics, medical terminology, professionalism, cultural diversity, ergonomics, leadership, safety, management education and phlebotomy are integrated throughout the course. (Note: course is taught off campus at an affiliate School of Medical Terminology/Clinical Laboratory Science).

BIO 421            16 credits

#### Medical Laboratory Science Clinical II

This course is a structured educational experience in a hospital facility consisting of lectures, conferences, enrichment experiences, reading assignments, examinations, unknowns and clinical laboratory rotations through the following departments: blood bank, chemistry, coagulation, hematology, microbiology, serology, urinalysis, and histology. Lab operations such as ethics, medical terminology, professionalism, cultural diversity, ergonomics, leadership, safety, management education and phlebotomy are integrated throughout the course. As a capstone (including research component and public speaking component), students select a case study covering at least three lab departments and present to lab staff. Prerequisite: BIO 420 (Note: course is taught off campus at an affiliate School of Medical Terminology/Clinical Laboratory Science).

BIO 430            4 credits

#### Forensic Biology

This course will provide an overview of biology as it relates to forensics. Topics will include sources and analysis of biological evidence, serology, species identification, identification of biological fluids, blood group typing, DNA extraction, DNA amplification, and electrophoresis. Laboratory activities will reinforce the concepts taught in lecture and provide hands-on experience with techniques. Integrates laboratory and classroom work. Prerequisites: BIO 304/311, 303/309, CHE 202/211.

BIO 440            3 credits

#### Biodiversity

Biodiversity explores the origins, ecology, and richness of one of the earth's natural capital, from the level of biological species through ecosystems. The value and uses of nature's capital and their exploitation will be examined. The

course reviews conservation strategies to maintain biodiversity for future generations. This course provides students with the scientific literacy necessary to make informed decisions about topics such as species conservation, and ecosystem management. Prerequisites: BIO 103 & 104.

## BUSINESS

The Business Department at Alvernia University embraces the Catholic, Franciscan tradition. Therefore, Alvernia's business programs examine the contemporary business world from both practical and ethical standpoints. The Alvernia University Business Department is committed to providing quality opportunities for students to obtain the necessary knowledge, skills, and advisement to become productive members of the business community. Opportunities are available for business majors to combine classroom learning with real-world knowledge through experiential learning opportunities and cooperative education internships. This broad-based approach prepares Alvernia business majors to succeed professionally by developing the supervisory and managerial skills necessary for career advancement. The Alvernia business faculty members have solid academic qualifications and years of business experience. They are aware of the latest trends and issues in the business world and incorporate these into class lectures.

**Admission Requirements for Junior Level:** Students will not be fully admitted into their respective business majors unless:

- They have an overall grade point average of 2.0 or higher (grades and credits from developmental courses are not considered) and
- They have completed 60 credits and have completed the following required courses with a minimum grade in each class of C: BUS 101, MAT core elective (MAT 110 suggested), MAT 208 or 209, BUS 206, and BUS 207

### ACCREDITATION

Alvernia University's Business Department is accredited by the Accreditation Council for Business Schools and Programs (ACBSP). For information explaining all of the benefits of earning a degree from an ACBSP accredited program, please visit [www.acbsp.org](http://www.acbsp.org) or e-mail [info@acbsp.org](mailto:info@acbsp.org).



## **5 Year MBA (4+1)**

Alvernia University offers a five-year business program that results in a Bachelor of Science degree and a Master of Business Administration degree. This unique program is designed specifically for traditional age students who would like to continue into a graduate program with no interruption from school.

Students who apply and declare an intention to continue into the MBA program are guaranteed a seat in the program as long as their GPA meets or exceeds a cumulative GPA of 3.0. If a student's GPA falls below a 3.0, the student will need to apply for admittance into the MBA program.

This program meets the 150 credit requirement for the CPA licensure exam.

## **1 year MBA**

This program is for students who have obtained a bachelor's degree in business, but want to earn a Master of Business Administration degree prior to obtaining fulltime employment. It is designed in a traditional semester format providing students with little work experience an opportunity to succeed in advanced course work. This program meets the 150 credit requirement for the CPA licensure exam.

## **BACCALAUREATE DEGREE**

Students obtain a Bachelor of Science degree in one of seven majors: accounting, finance, healthcare administration, human resources management, marketing, management, and sport management.

### **Required Business Core:** 30-31 credits

BUS 101, either BUS 200 or 250, BUS 206, 207, 342, 410, 411, 426, and 438.

Mathematics: 6-7 credits, in addition to meeting the general education core requirement in math, students must complete: MAT 208 or 209.

Related Requirements: 6 credits: ECON 248 and 249.

### **Recommended: 3-12 credits**

Cooperative Education BUS 441 and BUS 442

## **In addition to meeting the core requirements, the five majors have specific requirements as follows:**

### **Accounting:** 21 credits

Students prepare for careers in industry and/or public accounting and are encouraged to consider obtaining a Certified Management Accountant (CMA) or Certified Public Accountant (CPA) certification at the completion of their coursework. Students can satisfy the 150-hour CPA requirement, including the

required 36 hours in accounting, by completing appropriate additional undergraduate courses currently available in the business curriculum, or by earning an Alvernia MBA degree. All accounting courses selected for the 36 credit requirement, that are in addition to those required to earn an undergraduate accounting degree, shall be approved by the student's advisor in order to ensure compliance with CPA rules. Accounting is a dynamic field which provides a vast array of employment possibilities including specialties such as management accounting, cost accounting, tax accounting, financial analysis, small business planning, mergers & acquisition work, forensic accounting and auditing.

BUS 252, 253, 301, 304, 305, 400, 402

**Finance:** 21 credits

The Bachelor of Science degree in finance prepares you to pursue job opportunities in the areas of financial analysis, banking and insurance, other financial institutions, and investments. Careers in financial planning; a broker of stocks, bonds, and commodities; an insurance agent; a wealth management advisor, credit officer; a real estate agent; or a risk or financial project manager are possible. You may also seek employment in the corporate world or in federal agencies such as the Federal Reserve, Treasury Department, or the Internal Revenue Service.

BUS 205, 225, 227, 311, 312, 406, 412

**Healthcare Administration:** 21 credits

The Bachelor of Science degree in healthcare administrations prepares students to pursue job opportunities in the areas of hospital and nursing home administration, personal care home and assisted living managers, practice managers and health insurance employees. Careers in the healthcare field as an administrator, manager or health insurance claims manager are possible. You may also seek employment in the corporate world or in federal agencies in managing the requirements under the Health Care and Education Reconciliation Act of 2010 and the Patient Protection and Affordable Care Act of 2010.

HCS 200, 300, 330, 340, 400, 410, 430

**Human Resource Management:** 21 credits

Students develop an understanding of the components necessary to prepare for a career in human resource management including positions in training, recruitment, compensation management and benefit analysis. HR majors graduate with tools to develop and evaluate resources necessary to sustain a positive return of the people investment in an organization. Students are encouraged to join the nationally recognized Society for Human Resource Management (SHRM) Student Chapter on campus.

The Society for Human Resource Management (SHRM) confirms that curriculum taught at Alvernia University aligns with the recommended requirement for human resource degree programs as prescribed.

BUS 280, 320, 420, 427, 443; one of either BUS 305 or BUS 311 or CIS 311, and one of either BUS 350 or PSY 350 or BUS 322 or BUS 450.

**Marketing:** 21 credits

Students develop an understanding of consumer perceptions and the creation of an exchange of value between the consumer and an organization. This major prepares students to serve a valued marketer role in any organization. As students learn more about the field, coursework can be tailored to enhance career prospects in fields such as advertising, sales, product development, direct marketing, public relations, consumer products, sports marketing and marketing research.

BUS 208, 305 or 311, 309, 324, 414, 434, 444.

Related Requirement: COM 103 or 344 or 155.

**Management:** 21 credits

Students are motivated to develop management career potential and to be professional and community leaders. This major is designed to prepare the student for a variety of entry-level and mid-level management opportunities in small, mid-size, and large organizations in industry, government and service oriented fields. Working closely with an advisor, an enhanced curriculum allows a student to dual-major with other career areas such as accounting, marketing, human resource management and sport management.

BUS 280, BUS 305 or 311 or CIS 311; BUS 312; 320; 332; 431; and 450.

**Sport Management:** 21 credits

Students acquire an understanding of the role of sports in our society, the role of management in sports, and have opportunities to apply knowledge in a variety of practical experiences through coursework and the cooperative education internships. Students seeking careers in professional or collegiate sports, resorts, athletic clubs/facilities, retail sporting goods, public relations, activities programming, sales and marketing. Students are able to specialize in this curriculum rich in possibilities from other business majors.

BUS 208, 311 or 305; SM 201, 210, 310, 325, 455.

**ASSOCIATE DEGREE**

The business associate degree program provides a well-rounded curriculum for students who are interested in a two-year concentrated program. The curriculum also provides each student with an opportunity to continue their education to pursue a bachelor's degree in business applicable to any of the business core majors at Alvernia.

**Total Associate Degree Program:** 67 credits

General Education Core (24 credits): COM 101; COM elective (not used in major); Art, Music, Theater or Literature; Math (not MAT 100 or 208); Science; Social Science; Philosophy; Theology.

Major (42-43 credits): BUS 101, 200 or 250, 206, 207, 208, 280, 293, CIS 115, COM 103 or 131; ECON 110, 218, 248, and 249; MAT 208.

**Fraud Examination Concentration**

A concentration in fraud examination consists of courses necessary to provide the core competencies needed for students to excel in fraud examination and obtain the designation of Certified Fraud Examiner (CFE). The concentration prepares students to sit for the CFE Exam and is useful in many fields including accounting, human resources, management, criminal justice and insurance.

12 credits: BUS 101, 200 or 250 (prerequisite BUS 101), 205, and MBA 555 (prerequisite BUS 101 and BUS 200 or 250).

**Business Minor:** 21 credits

Students who major in another discipline may minor in business by earning 21 credits. Required courses for a business minor are: BUS 101, 200, 206, 207, 342, 410; ECON 248 or 249.

**Master in Business Administration**

The Master in Business Administration prepares students for leadership roles in both the for-profit and not-for-profit sectors. This program fosters the development of values and skills for managing human, financial and technological resources. Students experience a range of courses in management, finance, accounting, marketing, legal environment, management information systems and international business to prepare them for success in an increasingly dynamic and competitive business environment. Graduate Assistantship opportunities may be available for graduate students. For more information on these opportunities and the MBA program, contact the Graduate Center at 610-796-8228.

Current delivery formats include day MBA semester long program, an accelerated 7 week module program, and an online format providing flexibility for prospective students.

**Course Descriptions**

*\*500 and 600 level courses are for the MBA program. Core courses for this program are located in the Liberal Studies section of this catalog. See the Graduate Catalog for course descriptions.*

BUS 100            3 credits

Introduction to Business

Provides a foundation of business knowledge. Students are exposed to major facets of the business world that affect everyday decision making including: types of organizations, ethics, environmental impact, economics, management, marketing, and financial management. Enrollment is restricted to non-business majors and business majors with no more than six credits in business.

BUS 101            3 credits

Financial Accounting

Emphasizes conceptual framework of accounting to enable students to analyze transactions in terms of their effects upon the financial condition of a business. Topics include selection of appropriate journals and ledger accounts, preparation of financial statements, and the impact of accounting methods upon operations of a business.

BUS 200            3 credits

Managerial Accounting

The use of accounting data for managerial planning and control. Cost flows, cost-volume-profit analysis, capital budgeting, and pricing strategies are among the major topics included. Not for accounting majors. Prerequisite: BUS 101.

BUS 205            3 credits

Fraud Examination

Study of how and why occupational fraud is committed, how fraudulent conduct can be deterred, and how allegations of fraud should be investigated and resolved. In addition to covering the material in the textbook, the instructor or a guest lecturer presents at least one actual fraud case to the class. The sessions are interactive, with students working through the cases, developing investigative strategies, and seeking to prove how the fraud was committed.

BUS 206            3 credits

Management Principles

Provides an analysis of the traditional functions of management (i.e., planning, organizing, leading and controlling) with past, present and future application. Topics examined include quality issues, team-based approaches to work, organizational design and re-engineering efforts, motivational techniques, globalization, technology, diversity and ethics.

BUS 207            3 credits

Marketing Principles

An introduction to the basic functions of marketing and the marketing concept. Included topics of study are market analysis, consumer behavior, marketing research, the development of the marketing mix, and international and social marketing.

BUS 208            3 credits

Sales and Sales Management

An introduction to the sales process including prospecting, lead generation and qualification, sales presentation and closing skills. Sales management focuses on planning, organizing, staffing and supervision of the sales effort.

BUS 225            3 credits

Insurance and Risk Management

This course is designed to provide students with an understanding of personal and business risk and understand the tools used to mitigate such risks. Methods utilized to mitigate and manage risk will be evaluated including insurance, forecasting, access to insurance, government regulations, legal principles, annuities and operational procedures involved with risk transfer.

BUS 227            3 credits

Financial Services

This course is designed to provide students with an understanding of financial planning, process, and environment. The course provides the key factors necessary to understand the financial planning process including client/customer relations, ethics and practice standards, regulations, financial institutions, and special circumstances in finance.

BUS 250            3 credits

Accounting Principles

Builds upon and expands fundamental accounting principles covered in Bus 101. Use of corporate asset, debt and equity accounts, preparation and analysis of financial statements, and impact of cash flow are highlighted. Prerequisite: BUS 101.

BUS 252            3 credits

Intermediate Accounting I

Utilizes and expands the generally accepted accounting principles learned in BUS 101 and 250. Detailed analysis of accounting problems and related theories are included. Emphasis is placed upon acceptable accounting alternatives and their effects upon the preparation of financial statements. Prerequisite: BUS 250.

BUS 253            3 credits

Intermediate Accounting II

Provides further development of student's ability to apply generally accepted accounting principles to more detailed and complex business situations. Topics relating to asset management, current and contingent debt, long term investments, corporate debt and equity securities, earnings per share, statement of cash flows, and the impact of accounting methods upon statement preparations are emphasized. Prerequisite: BUS 252.

BUS 280            3 credits

#### Human Resource Management

The study of human resources in the management of the organization. Emphasis placed on understanding human resource planning, talent acquisition and talent management, total rewards management, and the human resource practitioner as a strategic partner. Impact of Human Resource Information Systems (HRIS), legislative issues, work design techniques discussed as well as other issues affecting human capital, including: Employee Assistance Plans (EAP), discipline and discharge practices. Prerequisite: BUS 206.

BUS 293            3 credits

#### Change Management

An analysis of both traditional and contemporary approaches to fundamental issues of change management including challenges of sustainability, social responsibility, and the global economic system. Emphasis will be placed on the multiple perspectives of change and the implementation of leading change. Focus will be on analysis of successes and failures of programs in large and small organizations as well as for profit and non-profit. Prerequisite: BUS 206.

BUS 301            3 credits

#### Advanced Accounting

Expands upon concepts learned in lower level accounting courses and presents major new areas for students to consider. Emphasis is placed upon business combinations, consolidated financial statements, and accounting for not-for-profit enterprises. Prerequisite: BUS 253.

BUS 304            3 credits

#### Federal Taxation

Covers basic theory and concepts of income taxation with emphasis on the application of the Internal Revenue Code to business and non-business activities of the individual. Prerequisite: BUS 250.

BUS 305            3 credits

#### Accounting Information Systems

Discussion of the design, implementation, and improvement of accounting systems while emphasizing the role technology plays in each phase. A systems approach to the gathering, processing, summarizing, and reporting of financial information is key. The implementation of internal controls is also stressed. General ledger, financial reporting, receivables, payables, inventory, and payroll are among the specific areas of application students experience through an automated accounting package. Prerequisite: BUS 101.

BUS 309            3 credits

Advertising and Promotion

In-depth study of factors that go into promotion and advertising campaigns. Students critically examine elements involved in planning, research, budgeting, public relations, media selection, creative concepts, message appeal, cost effectiveness, and legal constraints. Emphasis is placed on important role of promotion and advertising within the marketing context. Prerequisite: BUS 207 or permission of instructor.

BUS 311            3 credits

Principles of Management Information Systems

Examines the hardware and software components of information systems and the strategic uses of information. Topics include DSS (decision support systems), Executive Information Systems, AI (artificial intelligence), Expert Systems, and information ethics. The focus is on the Internet as an information tool and on E-commerce.

BUS 312            3 credits

International Business I

Examines the nature of international business within domestic, international and foreign environments. Financial, economic, socioeconomic, physical, political, sociocultural, legal, labor, competitive and distributive forces that have an impact on businesses are explored. Current trends shaping corporate strategies are analyzed. This course fulfills the human diversity graduation requirement.

BUS 314            3 credits

Retail Management

Focuses on successful merchandise management as it relates to the constraints of time, place, quantity, and price. The managerial issues emphasized are retailing structure, financial standing, credit and collections, account and expense control, layout and location, display, customer service and community relations. Prerequisite: BUS 207.

BUS 320            3 credits

Labor Relations

Provides analysis of labor relations process; history, development and structure of unions; impasse resolution; union security; and the role of business and government in wage determination. Student participation in a collective bargaining exercise is required. Prerequisite: BUS 280.

BUS 322            3 credits

Current Issues in Human Resource Management

Presents current changes and events in the human resource profession. Topics such as workplace violence and safety, workers compensation, human resource



information systems, current legislation, and ergonomics are discussed.

Prerequisite: BUS 280.

BUS 324            3 credits

#### Consumer Behavior

An examination of the decision-making processes of consumers and the social forces that influence consumer decisions with an emphasis on the implications of relevant theories and research findings upon the practice of marketing.

BUS 332            3 credits

#### Operations Management

Fundamental concepts, issues and techniques used to plan, analyze and control systems of production. Investigate operational problems in producing goods and services. Case analysis to include topics in making quality happen, logistics of planning production, managing inventories, dealing with capacity change, opportunities for vertical integration and operations strategy. Prerequisites: BUS 206; and MAT 208 or 209.

BUS 342            3 credits

#### Business Law

Deals with the meaning and functions of business law as applied to negotiable contracts, sales, agency employment, real property, insurance, labor, anti-trust law, consumer protection, and other legal issues such as international, environmental, privacy, tort and criminal law.

BUS 350            3 credits

#### Industrial and Organizational Psychology

Explores application of psychological principles and results of empirical research to the behavior of individuals in the workplace. Topics include organizational issues (e.g. work motivation, job attitudes, leadership, and organizational stress) and industrial issues (e.g. employee attraction, selection, placement, performance appraisal and feedback, and ergonomics). Intrinsic connection between science and practice is emphasized throughout the course. Prerequisite: PSY 101.

BUS 400            3 credits

#### Cost Accounting

Focuses on the collection and allocation of costs of materials, labor, and overhead. Emphasizes application and interpretation of cost data, analyses of job, process, activity-based and operations systems, the implementation of budgets and standards, the analysis of variances, and capital budgeting techniques. Prerequisite: BUS 250.

150

BUS 402            3 credits

Auditing

This course incorporates principles of accounting with auditing procedures and Generally Accepted Auditing Standards (GAAS). The impact of decisions by the SEC and the PCAOB on the auditing profession will be emphasized. The auditor's legal liability and responsibilities according to the Code of Professional Ethics established by the AICPA will also be reviewed and discussed. Prerequisite: BUS 301.

BUS 406            3 credits

Investment Analysis and Portfolio Management

This course is designed to provide students with an understanding of investment theory and valuation principles and practices. In addition, valuation principles and analysis of stocks, bonds and derivatives are included in the course. Finally, asset management techniques will be incorporated into the course. Prerequisite: BUS 227.

BUS 410            3 credits

Financial Markets

Provides in-depth analysis of financial markets and how those markets facilitate the flow of funds to accommodate the needs of individuals, corporations, governments and the global market. The purpose is to study and understand the roles of the financial intermediaries in the market and how they direct funds in an ethical business manner. Prerequisite: Econ 248 or 249.

BUS 411            3 credits

Corporate Finance

The role of the financial manager in the modern business organization is stressed. Topics include time value of money, financial analysis, risk analysis, financial forecasting, cost of capital, stock and bond valuation models, capital budgeting, investment decisions under conditions of uncertainty, long-term financial alternatives, and dividend policy. Prerequisite: BUS 200 or 250.

BUS 412            3 credits

International Business II

Focuses on how management deals with environmental forces in the global economy. Market assessment and analysis, export and import practices and procedures, global strategic planning, and technologically-driven changes will be analyzed. Emphasis is placed on diversified case studies. This course fulfills the human diversity graduation requirement. Prerequisite: BUS 312.

BUS 414            3 credits

International Marketing

Explore fundamental principles, theories and concepts of rapidly changing international markets. Strategic issues dealing with market entry, trade barriers,

foreign trade imbalance, environmental and legal differences, foreign competition, currency fluctuation, and their effects upon marketing decisions are analyzed. This course fulfills the human diversity graduation requirement.

Prerequisite: BUS 207.

BUS 420            3 credits

#### Employment Law

Approaches the study of labor and employment law through text case studies, leading court decisions and current events. Insight into the workplace legal environment is presented through interactive analysis. Multicultural and global legal employment trends are presented.

BUS 426            3 credits

#### Strategic Management

Study of development and implementation of strategic plans conceived by executive level management. Students integrate previously studied topics in the business core curriculum along with new information dealing specifically with strategic management. Utilization of in-depth case studies allows students to sharpen their skills of analysis and to develop coherent and comprehensive strategic plans. Prerequisite: BUS 200 or 250; Pre- or Co-requisite: BUS 411.

BUS 427            3 credits

#### International Human Resource Management

Explores the implications that the process of internationalization has on the activities and policies of human resource management. This course fulfills the human diversity graduation requirement.

BUS 431            3 credits

#### Entrepreneurship

Explores the challenges and opportunities experienced in starting and managing a small business. Emphasis is placed on the planning, financing, accounting, marketing, and management skills required to build a successful business enterprise. The importance of business innovation and specific management techniques will be explored. Prerequisites: BUS 200 or 250; and BUS 206.

BUS 434            3 credits

#### Marketing Management

A capstone course in the marketing curriculum that integrates previously presented principles and practices. The course is designed to develop an appreciation of the marketing executive's viewpoint which focuses on managing organizational resources to fully understand customer needs and wants; develop compelling offering of products and services; effectively communicate with targeted customers; capture and deliver optimal value. Detailed case studies and projects will be used to explore the application of marketing theory to practical

situations. Coursework will be oriented to consider profit-oriented, not-for-profit and public-sector organizations.

BUS 438            3 credits

#### Business Seminar

Emphasizes career goals and objectives while developing professional skills and self-presentation. Research into current developments in the business field, corporate culture, team building, networking, and business etiquette is explored. This course is the business capstone course. Prerequisite: junior or senior standing. Students must have successfully completed 30 credits at Alvernia. Students with over 3 years of full-time professional experience may substitute a business elective with the program director's approval. This course meets the Writing Enhanced requirement.

BUS 441            credits vary

#### Cooperative Education in Business I

Supervised learning experience that integrates theoretical coursework, career goals and objectives, and on-the-job work experience in the business field. Academic assignments supplement actual work experience. Maximum Cooperative credits for BUS 441 and BUS 442 are 9. Prerequisites: senior standing and 2.75 GPA. Special consideration may be given to outstanding juniors. Students must have successfully completed 30 credits at Alvernia, in which 15 must be in the business department.

BUS 442            credits vary

#### Cooperative Education in Business II

Extension of BUS 441 where the student continues on-the-job work experience in the business field through job expansion and job enrichment. Academic assignments supplement the actual work experience. Maximum Cooperative credits for BUS 441 and BUS 442 are 9. Prerequisites: BUS 441, senior standing and 2.75 GPA. Students must have successfully completed 30 credits at Alvernia, of which 15 credits must be in the business department.

BUS 443            3 credits

#### Compensation and Benefit Management

Applied examination of direct and indirect reward systems in organizations. Topics include job evaluation, wage surveys, incentives, pay equity, compensation and benefits strategy, benefit offerings, mandated benefits, benefit cost analysis and flexible benefit programs. Prerequisite: BUS 320.

BUS 444            3 credits

#### Marketing Research Seminar

Emphasizes principles of scientific methodology for marketing research. Topics include problem formulation, cost and research design, questionnaire construction, report preparation, data interpretation and reliability

measurements. Findings are used to formulate marketing strategies directed toward specific market segmentation. Prerequisite: BUS 207.

BUS 445            3 credits

#### Leadership Seminar

This course combines classroom instruction with practical experience via membership in one of our professional nationally affiliated organizations. Students will be expected to be active in one or more of these organizations and will be graded on specific projects/activities completed. This is an elective course for business and sport management majors only.

BUS 446            3 credits

#### Management Research Seminar

Capstone course in the management curriculum focusing on current problems and issues. Course takes an applied research approach through a thorough exploration of theoretical research issues and real-world business research. Required research paper is a major component of the course. Prerequisite: senior status or permission of instructor.

BUS 450            3 credits

#### Organizational Leadership, Governance and Accountability

Analyzes organizations in terms of structure, authority, culture, managerial philosophy and ethical scrutiny. Students learn theories of human perception, communication, motivation, organizational culture and change, and apply these theories to practice through research, experiential exercises and case studies.

BUS 492            3 credits

#### Essentials of Management and Marketing

This course is designed to provide undergraduate education students with a basic foundation to the traditional as well as the contemporary functions of management and marketing. Topics of study include the management process, quality issues, team-based approaches to work, globalization, the marketing mix, consumer behavior and social marketing, technology, diversity and ethics.

SM 201 3 credits

#### Introduction to Sport Management

Explores organizational and managerial foundations of sport management, leadership styles, governance bodies, international sport management, sport tourism, critical thinking, and career options in different sport environments. Ethical challenges and legal considerations in sport management are examined.

SM 210            3 credits

#### Sport in Society

Sport is examined through the paradigm of different cultures within the U.S.

and throughout the world and is discussed as a major social institution with power as a socializing agent and unifier of people. Complex social issues are analyzed through the forum of sport, forcing new and thought provoking ways of understanding the importance and value of different cultures within the interdependent global community. Cultural components explored include gender, race, ethnicity, religion, and class. Fulfills diversity requirement.

SM 310                    3 credits

#### Facility and Event Management

Analyzes the management process required in designing, managing, and selecting sites for sport facilities. Focuses on event planning and management for sport and special events and explores the economic impact of sport facilities and events.

SM 325                    3 credits

#### Sport Marketing, Promotions, and Fundraising

This course explores the marketing process and the promotional developments and strategies relative to the sport industry. Fundraising as essential to youth, interscholastic, and intercollegiate sport is discussed along with effective strategies to meet established financial goals. Prerequisite: BUS 207.

SM 441                    6 credits

#### Cooperative Education in Sport Management

Supervised learning experience that integrates theoretical coursework, career goals and objectives, and on-the-job work experience in the sports management field. Academic assignments supplement actual work experience. Prerequisite: senior standing and a 2.75 GPA. Special consideration may be given to outstanding juniors. Students must have successfully completed 30 credits at Alvernia.

SM 455                    3 credits

#### Sport Management Seminar

A capstone course in the sport management curriculum that integrates previously presented principles and practices. Students will complete a capstone project culminating in a paper and presentation. The student must develop and detail an organizational plan for an organization in the sport industry utilizing the foundational skills learned in the business core and sport management core. This project will incorporate the overall financial structure and management structure of the organization including a study of its leadership utilizing leadership theory. Prerequisite: senior status or permission of department chair.

## CHEMISTRY / BIOCHEMISTRY / ENVIRONMENTAL BIOCHEMISTRY / FORENSIC SCIENCE

### CHEMISTRY

**Total Program:** 66-72 credits

Programs of specialization in chemistry provide opportunities and guided experiences through which the student may be introduced to the basic knowledge and skills essential to pursue careers in industrial and governmental research, medical technology, teaching in secondary schools, professional careers, and attending graduate school in the various areas of chemistry.

**Major:** 43 credits

CHE 104/110, 105/111, 107, 201/210, 202/211, 212, 221, 301, 302, 310/311, 404; SCI 402; either SCI 408 or SCI 406/407.

**Related area:** 17-20 credits

PHY 200, 201; MAT 230, 231, 220, 131 recommended.

**Electives 2 courses from:** CHE 401/410, 403, 404, 405, 406; MAT 209, 332.

### Chemistry Minor

A minor in chemistry shall consist of 18-20 credits earned by completing CHE 104, 107, 110, 201, 202, 210, and 2 courses in either CHE 212, 401, 403, 404. Determination is made with assistance of the academic advisor.

### Chemistry Secondary Education Certification

Secondary Education (7-12) Certification in Chemistry can be earned by Alvernia students who first complete their undergraduate degree in Chemistry and demonstrate content knowledge in this area on Pennsylvania's required Praxis exam in Chemistry. The following coursework is required and can be started as early as the undergraduate senior year, then completed as part of Alvernia University's post-baccalaureate program:

ED 203, ED 204, MED 505, MED 515, MED 545, MED 574, MED 615, MED 665, MED 670 and MED 672.

### BIOCHEMISTRY

**Total Program:** 80-84 credits

Biochemistry is specially designed as an interdisciplinary program for students with a strong interest in biology and chemistry. The program will prepare a biochemistry major to enter graduate school in chemistry, biochemistry, pharmacology or physiology; give adequate preparation for entering a

professional school of medicine, dentistry, or optometry; and prepare the student for industry in chemical or pharmaceutical areas.

**Major:** 34 credits

CHE 104/110, 105/111, 107, 201/210, 202/211, 301, 302, 310, 311, 401/410.

**Select One:**

- 6 credits of Internship (SCI 480)
- 6 credits of Research Sequence SCI 406 and 407.

**Major Electives:** select 1 course from: CHE 212, 221, 315; BIO 205,315, 405, 409; MAT 231.

**Related Requirements:** 41-46 credits

BIO 103, 115/116, 221, 303/309, 304/311, or 409; SCI 402; MAT 209, 220, 230 (MAT 131 recommended); PHY 200, 201.

### **LECOM PARTNERSHIP**

Alvernia University in partnership with LECOM offers an opportunity for students to enter in LECOM's School of Dental Medicine, the Pharmacy School and the Medical College after completion of their degree at Alvernia. Specific guidelines and requirements are available from the Chair of Science and Mathematics.

### **Doctor of Physical Therapy (DPT) Program:**

The biochemistry major can be followed as a 3+3 year curricular track leading to potential matriculation into the DPT Program in the senior year. That chemistry curricular track and the 8 semester plan for the 3+ 3 year curricular track are specifically detailed and differ from the 8 semester plans for the 4 year undergraduate major in chemistry. For further information about the accelerated 3+3 year chemistry/DPT Program curricular track, visit the Doctor of Physical Therapy Program homepage at <http://www.alvernia.edu/dpt> or contact the DPT Program Director, Dr. Christopher Wise, at [christopher.wise@alvernia.edu](mailto:christopher.wise@alvernia.edu).

### **ENVIRONMENTAL BIOCHEMISTRY**

**Total Program:** 91-96 credits

The Environmental Biochemistry program offers an interdisciplinary major for students who are interested in Chemistry and the Biology of the earth's natural systems. This major also includes a sustainability component integrated throughout its curriculum. This major has students taking traditional biology, chemistry, physics and math along with courses in Environmental Chemistry, Environmental Toxicology, Biodiversity, and Environmental Law and Policy.



**Major:** 59 credits

CHE 104/110, 105/111, 107, 201/210, 202/211, 212, 221, 320, 430; BIO 103, 104, 221, 320, 440; SCI 402,

Select One:

- 6 credits of internship (SCI 480)
- 6 credits of research sequence (SCI 406 & 407)

**Requirements:** 32-37 credits

PHY 103, 200, 201; MAT 209, 230; BIO 203, 205, 230, 325. Recommended: MAT 131 (as needed) and CES 330 (optional)

Note: if CES 330 is taken, the Related Area for this program would fulfill the Community and Environmental Sustainability Minor with BIO 203, BIO 230, CES 330, BIO 205, BIO 320 and PHY 103.

**Environmental Biochemistry Minor**

BIO 103, 430; CHE 104/110, 430; One course from BIO 221, 320; CHE 212, 221.

**FORENSIC SCIENCE****Total Program:** 93-96 credits

Forensic Science is specially designed as an interdisciplinary program for students with a strong interest in biology and chemistry. The program will prepare a forensic science major to work in a modern crime laboratory at local, regional, state and/or federal levels. Students may also pursue careers within the Drug Enforcement Administration, Food and Drug Administration, Environmental Protection Agency and Occupational Safety and Health Administration and attend graduate school.

**Major:** 71 credits

CHE 104/110, 105/111, 107, 201/210, 202/211, 212, 221, 230, 301/310, 315, 405; SCI 402; BIO 103, 115, 116, 303/309, 304/311, 315, 430; Select One: 6 credits of internship (SCI 480) or 6 credits of research sequence (SCI 406 and 407).

**Select one:**

- 6 credits of Internship (SCI 480)
- 6 credits of Research Sequence (SCI 406 and 407)

**Related Area:** 22-25 credits

PHY 200/201; MAT 209, 230 (MAT 131 recommended); PSY 101; PHI 200, 210 or 220.

**Forensic Science Minor**

Consists of 19-20 credits earned by completing CHE 104/110, 230, 405; BIO 103; one course from CHE 212, 221, 315; BIO 303/309, 304/311, 315.

**COURSE DESCRIPTIONS**

CHE 102            3 credits

**Physical Science**

Integrated course of chemistry physics and earth science with application and experiments to demonstrate the forces of nature and its environment. Three lecture hours per week. Open to non-science majors. Satisfies lab science requirement in General Ed.

CHE 103            4 credits

**Science and Contemporary Society**

Study of science in the context of social, political, economic and ethical issues. Focus is on understanding of air, global warming, energy, water, nuclear power, polymers, drugs, nutrition, and genetic engineering issues. Open to science and non-science majors. Integrates laboratory and classroom work.

CHE 104            3 credits

**General Chemistry I**

Study of basic principles and theories of chemistry including stoichiometry, atomic and molecular structures, the periodic law and its application, solutions, and gas laws. Problem solving is introduced. Three lecture hours per week. Reserved for majors in biology, biochemistry, clinical laboratory science, chemistry, forensic science, general science, environmental biochemistry, doctorate of physical therapy, athletic training, or permission of the instructor. Co-requisite: CHE 110 or 112.

CHE 105            3 credits

**General Chemistry II**

Introductory thermodynamics, kinetics, acid bases, chemical equilibrium, electro-chemistry and fundamental descriptive chemistry. Three hours lecture per week. Prerequisites: CHE 104, 110 or 112; Co-requisite: CHE 111.

CHE 106            3 credits

**Fundamentals of Chemistry**

Survey of basic concepts and principles related to general, organic and biochemistry. Open to science and non-science majors. Co-requisite: CHE 109.

CHE 107            1 credit

Laboratory Safety

Basic study of all laboratory safety rules and regulations including fire hazards, chemical toxicity, waste control, explosive chemicals, emergency procedures, protective equipment, and laboratory equipment hazards. Required: science majors.

CHE 109            1 credit

Fundamental Laboratory Techniques

Survey of basic laboratory skills, techniques, and safety with emphasis on applying theoretical ideas in practical situations involving chemistry in everyday life. Two hours of laboratory per week. Open to science and non-science majors. Co-requisite: CHE 106.

CHE 110            1 credit

General Chemistry Laboratory I

Laboratory techniques will be discussed and applied to the solution of typical chemical problems and the experimental nature of chemistry. Three hours of laboratory per week. Co-requisite: CHE 104.

CHE 111            1 credit

General Chemistry Laboratory II

Laboratory techniques emphasizing qualitative analysis. Three hours of laboratory per week. Prerequisites: CHE 104, 110 or 112; Co-requisite: CHE 105.

CHE 112            1 credit

Introduction to Forensic Lab

Survey of basic laboratory skills, techniques, and safety, with emphasis on analysis performed in a forensic laboratory. An investigation of physical evidence through the use of scientific procedures will be studied. Open to science and non-science majors. Co-requisite: CHE 104.

CHE 118            3 credits

Hands-on Science in the Elementary School

Through hands-on activities in the life, physical and earth sciences, elementary education students and teachers are given opportunities to acquire knowledge of science, increase their skills in using scientific processes, and develop positive attitudes toward science. Open only to elementary education majors.

CHE 201            3 credits

Organic Chemistry I

Study of fundamental principles of organic chemistry emphasizing topics involving structure, reactivity, bonding, stereochemistry, acids and bases,

electrophilic addition and nucleophilic substitution. Three hours lecture per week. Prerequisites: CHE 104, 105, 110 or 112, 111; Co-requisite: CHE 210.

CHE 202            3 credits

### Organic Chemistry II

Study of functional groups, reaction mechanisms and problems in synthesis. Three hours lecture per week. This course meets the Writing Enhanced requirement. Prerequisites: CHE 201, 210; Co-requisite: CHE 211.

CHE 210            1 credit

### Organic Chemistry Laboratory I

Study and practice in the basic techniques employed in an organic chemistry laboratory, including crystallization, melting point determination, extraction, chromatography, distillation and other techniques for the isolation and purification of organic compounds. Three hours of laboratory per week. Prerequisites: CHE 104, 110 or 112; 105, 111; Co-requisite: CHE 201.

CHE 211            1 credit

### Organic Chemistry Laboratory II

Focus is placed on the chemical synthesis of organic compounds using routine reactions including nucleophilic substitution and elimination, Williamson ether synthesis, Aldol and Claisen condensations, aromatic substitution, and condensation polymerization. Three hours of laboratory per week. Prerequisites: CHE 201, 210. Co-requisite: CHE 202.

CHE 212            4 credits

### Analytical Chemistry

Quantitative study of gravimetric and volumetric methods of analysis with emphasis on problem solving. Other topics will include a survey on the use of instrumental methods of analysis. Attention will be directed primarily to practical aspects of solving analytical problems. Integrates laboratory and classroom work. Prerequisites: CHE 104, 105, 110 or 112, 111.

CHE 221            4 credits

### Instrumental Analysis

Introduction to modern methods of chemical analysis involving the analytical instrumentation routinely employed in chemical, pharmaceutical, biomedical and forensic science laboratories. Students will be introduced to UV-Vis, IR, GC-MS, AA, Raman, HPLC, and other types of instrumental analysis. This integrates laboratory and classroom work. Prerequisites: CHE 212.

CHE 230            4 credits

### The Forensics Profession

This course will address the current state of the Forensics' Professional in the workplace. Topics include introduction to forensic science, the legal system,

courtroom testimony, ethics, quality assurance, profession practice, evidence (collection, processing, and identification), and a survey of forensic science. This does not fulfill the lab science requirement in the core.

CHE 301            3 credits

Physical Chemistry I

Study of properties of gases, laws of thermodynamics and thermochemistry. Three lecture hours per week. Prerequisites: CHE 104, 105, 110 or 112, 111. Co-requisite: CHE 310.

CHE 302            3 credits

Physical Chemistry II

Emphasis on reaction kinetics, solution properties, electrochemistry and macromolecules. Three hours lecture per week. Prerequisite: CHE 301. Co-requisite: CHE 311.

CHE 310            1 credit

Physical Chemistry I Laboratory

Experimental investigation of physical forces acting on matter and various chemical properties. Examination of thermodynamics, kinetics, viscosity, and other physical-chemical phenomena is performed. Prerequisites: CHE 105 and 111. Co-requisite: CHE 301.

CHE 311            1 credit

Physical Chemistry II Laboratory

A continuation of the experimental investigation of physical forces acting on matter and various chemical properties. Examination of spectroscopy, quantum mechanics, and other physical-chemical phenomena is performed. Prerequisites: CHE 301 and 310. Co-requisite: CHE 302.

CHE 315            3 credits

Forensic Toxicology

Provides a broad exposure and understanding of the field of modern forensic toxicology. Methods and concepts including pharmacokinetics, pharmacodynamics, human performance, post mortem, and forensics drug testing will be addressed. Prerequisites: CHE 212 and 221.

CHE 320            3 credits

Environmental Toxicology

Examines historical and recent toxicological issues facing our society. Topics will include a survey of the diverse chemical hazards encountered in the environment and a practical understanding of the complex effects on human health and the health of species occupying various ecosystems. Students will gain a basic understanding of the biochemical mechanisms for detoxifying xenobiotic compounds. Prerequisite: CHE 202.

CHE 401            3 credits

Biochemistry

Study of proteins, enzymes, carbohydrates, lipids and nucleic acids in relationship to biological and metabolic processes. Prerequisites: CHE 104, 105, 110 or 112, 111; 201, 210; 202, 211. Co-requisite: CHE 410.

CHE 402            2 credits

Seminar

Presentation/discussion of research papers prepared by students. Prescribed for seniors.

CHE 403            3 credits

Spectroscopic Methods of Analysis

Theoretical approach to spectroscopic methods of analysis involving infrared, nuclear magnetic resonance, ultraviolet and mass spectroscopy. Problem solving dealing with interpretation of data obtained from spectroscopic instruments will also be studied. Prerequisites: CHE 201, 210, 202, 211.

CHE 404            3 credits

Advanced Organic Chemistry

Current theories of organic chemistry, stereochemistry and reaction mechanism of organic compounds. Three lectures per week with discussions. Prerequisites: CHE 104, 105, 110 or 112, 111, 201, 210, 202, 211.

CHE 405            4 credits

Forensic Chemistry

A study of chemistry as it pertains to law. Focus is on the many facets of forensic science, such as drug analysis, toxicology, trace analysis, arson analysis, and DNA/serology. Numerous methods of analyses will be covered, including gas chromatography (GC), mass spectrometry (MS), high performance liquid chromatography (HPLC), thin layer chromatography (TLC), infrared spectrometry (IR) and ultraviolet/visible spectrometry (UV/Vis). Integrates laboratory and classroom work. Prerequisites: CHE 104, 105, 111, 112, 201, 202.

CHE 406            3 credits

Advanced Inorganic Chemistry

Study of the stereochemistry of the inorganic compounds and the oxidation states of individual elements, the coordination of compounds of the transition elements, and the theory of metal ligand bonding. Prerequisites: CHE 104, 105, 110 or 112, 111, 301, 302, 303.

CHE 410            1 credit

Biochemistry Laboratory

Advanced studies in the isolation, purification and characterization of proteins and nucleic acids. An introduction to separation techniques like chromatography, electrophoresis and the evaluation of enzyme activity is provided, as well as an exploration into the basic techniques employed for the isolation, purification and manipulation of DNA. Three hours of laboratory per week. Prerequisites: CHE 104, 105, 110 or 112, 111, 201, 202, 210, 211. Co-requisite: CHE 401.

CHE 420            16 credits

Medical Laboratory Science Clinical I

This course is a structured educational experience in a hospital facility consisting of lectures, conferences, enrichment experiences, reading assignments, examinations, unknowns and clinical laboratory rotations through the following departments: blood bank, chemistry, coagulation, hematology, microbiology, serology, urinalysis, and histology. Lab operations such as ethics, medical terminology, professionalism, cultural diversity, ergonomics, leadership, safety, management education and phlebotomy are integrated throughout the course. (Note: course is taught off campus at an affiliate School of Medical Terminology/Clinical Laboratory Science).

CHE 430            4 credits

Environmental Chemistry

Broadly focuses on issues of air, water and soil quality. Topics include SMOG, acid rain, Ozone and its depletion, indoor air pollution, and the greenhouse effect. Contamination of soil and ground water from industry and agriculture will be examined. The contribution of specific and inorganic chemicals to water pollution issues will be addressed, Integrates laboratory and classroom work. Prerequisite: CHE 221.

CHE 421            16 credits

Medical Laboratory Science Clinical II

This course is a structured educational experience in a hospital facility consisting of lectures, conferences, enrichment experiences, reading assignments, examinations, unknowns and clinical laboratory rotations through the following departments: blood bank, chemistry, coagulation, hematology, microbiology, serology, urinalysis, and histology. Lab operations such as ethics, medical terminology, professionalism, cultural diversity, ergonomics, leadership, safety, management education and phlebotomy are integrated throughout the course. As a capstone (including research component and public speaking component), students select a case study covering at least three lab departments and present to lab staff. Prerequisite: CHE 420 (Note: course is taught off campus at an affiliate School of Medical Terminology/Clinical Laboratory Science).

CHE 480            6 credits

### Chemistry Internship

Student must participate in 200 hours or more of chemistry-related activities at an off-campus site under the supervision of an internship sponsor. Internships may be procured at any business, academic, government or non-profit agency willing to engage interns in meaningful work or research activities.

Prerequisites: junior status and a 2.5 GPA.

## COLLEGE

Alvernia University offers courses that are college-wide in nature; some of which are required of all students in any major program and other courses that are recommended to all students.

### COURSE DESCRIPTIONS

FYS 101            3 credits

#### First Year Seminar: Enduring Questions

Designed specifically for new college students and based around contemporary themes, First-Year Seminar (FYS) promotes academic success, personal development, interpersonal connections and awareness of current events. The course will introduce students to the expectations and values of an academic community, the Liberal Arts tradition, and to Alvernia's Franciscan mission and heritage. Preparing students for a successful transition to the university, FYS will teach students how to become active learners, strengthen their critical reading and thinking skills and develop an educational plan.

COL 400            1 credit

#### Liberal Studies Capstone

This culminating experience for the Liberal Studies major will be the development and maintenance of a portfolio that reflects the critical learning and content of the program of study and related independent learning experiences beyond the coursework. Included in the portfolio will be an introductory paper explaining the content and significance of each learning experience. Such items might include: scholarly or creative papers; written comments from professors on presentations or projects; research data and related conclusions regarding a relevant theory; journal entries delineating the time, effort, and reactions to any learning opportunity in the program. The portfolio will be reviewed by the advisor and defended in the presence of a panel of two professors from the relevant academic areas and the advisor.



COL 471            12 credits

#### The Washington Center Experience

Students spend a semester in Washington, D.C., interning in a Congressional office, government agency, non-profit institution, major corporation, newspaper network, or special interest group. Opportunities exist in: environment, women's issues, the arts, education, science, and labor relations, among others.

Participants should be juniors or seniors, have a 2.5 grade point average, and have approval of department under which credit is awarded. (If internship is interdisciplinary, credit is awarded for COL 471, as listed here; if internship is within an Alvernia discipline, credit is awarded under appropriate department.) Approval from the Provost is required for this internship.

## COMMUNICATION

Communication is an extremely flexible and practical major that prepares students for a variety of careers. The Alvernia University communication program includes a broad spectrum of courses encompassing journalism, multimedia production, speech, film, theatre, plus functional and creative writing for various media applications. Communication majors pursue careers in journalism, public relations, event management, advertising, marketing, publishing, broadcasting, corporate communications and theatre. Courses are structured to strengthen problem-solving abilities and to develop writing skills for professional and personal use. The program also focuses on enhancing critical thinking, oral communication, clear organization and concise expression of ideas. Students are encouraged to develop practical experience in media-related fields through internships with local businesses, advertising agencies, and television and radio stations. Communication faculty members have professional experience in television reporting, print journalism, creative writing and theatre.

English and communication courses may be selected to fulfill the liberal arts core requirements; each of these courses requires a minimum of 2500 written words.

**Major:** 48 credits

**Required of all majors:** COM 103, 122, 131, 420; COM 480 or 481

Track requirements: 12 credits

Communication electives: 6 credits

English electives: 9 credits

Related electives: 6 credits

Communication majors must achieve a 2.5 GPA in their writing courses, successfully complete an EXCEL course (CIS 105 or CIS 115), and contribute to one of the university publications for at least one semester to graduate.

**Majors must complete one of the six following tracks:**

**Corporate Communications:** Four of the following: COM 213, 220, 240, 332, 342, 344, 362, 422

Related Electives: Business, Psychology. Two of the following: BUS 206, 280, 320; PSY 101, 306, 350, 405

**Film, Culture and the Creative Arts:** Four of the following: COM 250, 261, 263, 351, 352, 353, 360, and any 3-credit course in Theatre (COM 434 may be counted only once as fulfilling emphasis requirements).

Related Electives: Arts and Music: Two of any Art or Music course

**Journalism:** Four of the following: COM 251, 330, 332, 362, 422, 432\*, 452\*

Related Electives: History, Political Science, Social Science

Two of the following: Any History or Political Science course; SSC 222 (recommended) and SSC 321

**Media Design and Production:** Four courses from the following: COM 220, 251, 257, 332, 340, 342, 352, 362, 432\*, 452\*

Related Electives: Art, CIS. Two of any ART or CIS course

**Public Relations and Advertising:** Four of the following: COM 213, 257, 220, 240, 332, 340, 342, 362, 422

Related Electives: Business, Psychology, Art. Two of the following: BUS 207, 208, 309, 314; PSY 101, 405; ART 103, 209, 281, 309

**Theatre Studies:** In major requirements COM 103 may be substituted with COM 155. COM 434 may substitute for COM 480 or 481. Also, COM 255, 350, 355, 404

Communication Electives: Two from the following: COM 213, 250, 351.

English Electives: Three of the following: ENG 207, 213, 302, 303, 321.

Related Electives: One from the following: ART 101, 103, 105, 215, 217. One from the following: MUS 121, 135, 222, 224, 331, 333. Students are advised to enroll in 4 credits of COM 134.

*\*course may be counted only once as fulfilling emphasis requirements.*

**Communication Minor:** 18 credits

Credits in communication and/or English with a maximum of 6 in English and a maximum of 6 in Internship; COM 100 and 101 do not count toward the minor.

Seniors may not register for a 100 level English or communication course without the permission of the Department Chair.

## **COURSE DESCRIPTIONS**

COM 100            3 credits

### **Fundamentals of Communication**

Course focuses on the fundamental processes of reading and writing that are essential to communication. Students develop critical reading skills that can be applied to all content areas and review the fundamental principles of rhetoric, grammar, punctuation, capitalization, and spelling. Course carries transcript credit only; the qualified student, however, may petition for graduation credits following completion of the course. This course cannot substitute for COM 101, nor can it fulfill the core requirement in communication. It should be used as an elective only after consultation with the academic advisor and the English/communication chairperson.

COM 101            3 credits

### **Composition and Research**

This course is an introduction to the critical thinking, reading, researching and writing skills that a student will encounter in an academic setting. Students will learn to develop their own ideas and respond to the ideas of others. Students will write essays in a variety of academic modes: exposition, analysis, argumentation and research. Students will learn both APA and MLA citation styles. Course is available only after placement by departmental faculty. Students must achieve "C" or better to fulfill core requirements.

COM 103            3 credits

### **Fundamentals of Speech**

Basic course in the development of communication attitudes and skills with a view to enabling the student to feel comfortable and competent in public speaking ventures. Includes exercises in the oral interpretation of literature; the organization, delivery, and evaluation of various types of speeches; and participation in panels or symposiums.

COM 122            3 credits

### **Mass Media Theory and Application**

Introduction to interrelationships between contemporary American life and communication media. Includes a survey of basic theories, models, and practices of mass communication.

COM 131            3 credits

### **Writing for the Media**

Introduction to writing styles and format requirements necessary to write for various American media. Emphasis on process of gathering and writing news for

print and broadcast media. This course meets the Writing Enhanced requirement.

COM 132            1 credit

Journalism Workshop

Workshop where students write for the university newspaper, the *Alvernian*, and are responsible for production assignments. May be repeated.

COM 134            1 credit

Theatre Workshop

An overview of the various elements that make up the art of the theater. Students participate in the Alvernia University Theatre Ensemble (ACTE) and are responsible for production assignments. May be repeated for credit. Cross-listed with THR 134.

COM 142            3 credits

Creativity Workshop

The course explores the art of creativity in various fields of study. Through exercises, discussions, and research, students will learn the many tools and techniques for expressing creativity in their own field of study. Cross-listed with THR 142.

COM 150            3 credits

Introduction to Theatre

A brief, but comprehensive introductory view of the theatre examining all elements that make it a lively art. Cross-listed with THR 150.

COM 155            3 credits

Introduction to Acting

Principles of basic acting technique-given circumstances, tasks, facets of embodying and experiencing the portrayal of a character. Some attention given to physical and vocal characterizations. Cross-listed with THR 155.

COM 156            3 credits

Theatrical Production and Design

This class is designed to give students an introduction to crafting scenery and to basic principles of scenery and lighting design. Cross-listed with THR 156.

COM 170            3 credits

ESL Learners

This course is designed to offer non-native English speakers opportunities for individualized conferencing and one-on-one instruction, both of which can lead to a greater mastery of writing at the college level.

COM 212            3 credits

Grammar Studies

Study of various linguistic theories incorporated with practical application of rules of English syntax and usage. Designed primarily for elementary and secondary English education majors; recommended for English majors and minors. Suggested for all who wish to base improvement in their writing upon sound mechanics and effective rhetorical strategies. Prerequisite: COM 101.

COM 213            3 credits

Interpersonal Communication

An introductory survey of basic theories, models, and practices of interpersonal communication. Students learn interpersonal communication principles, sharpen awareness of own and others' personal communication habits, and ultimately improve interpersonal communication skills.

COM 220            3 credits

Event Planning

This course introduces students to special event planning processes and techniques. Emphasis is on creating, organizing, identifying sponsors, marketing and implementing community and business events.

COM 234            3 credits

Intercultural Communication

This course is designed to provide a survey of intercultural communication theory and practice and to develop a better understanding of human interactions in global contexts. The relationship between the culture, behavior, and communication of individuals and groups, both internationally and nationally, will be studied. Students will analyze and research how intercultural communication factors affect the way business, services, and communication are handled in various settings. Course fulfills diversity requirement.

COM 240            3 credits

Public Relations

A study of principles and applications of public relations in contemporary society. The course will include an overview of the relationship between the public relations practitioner and both internal and external publics. Topics include media relations, publications, crisis management, and the development of public relations plans/campaigns.

COM 244            3 credits

Computer-Assisted Design

A course in computer-assisted design such as AutoCAD and other design programs with a particular emphasis on their use in theatre.

COM 250            3 credits

Interpretation of Film

Critical approach to analyzing film and its significance in contemporary society.

COM 251            3 credits

Broadcasting and Electronic Media

Overview of contemporary broadcasting and electronic media with an emphasis on television. Students study the history of broadcasting, development of technology, as well as the business and administrative aspects surrounding broadcast media. Students apply their textbook learning in an actual broadcast facility. At the facility, students produce video assignments such as PSAs (public service announcements) for non-profit organizations. Most of the sessions are held at a local broadcast facility.

COM 255            3 credits

Intermediate Acting

Intermediate instruction in techniques for character development including improvisation. Also an introduction to acting styles and acting in verse plays. Cross-listed with THR 255.

COM 257            3 credits

Communications in the Cloud

The course explores the concept of "the cloud," the use of computing resources that are delivered as a service over a network (especially the Internet). In particular, this course addresses how the cloud is the backbone of social media and how the cloud facilitates business communication and collaboration. Technologies studied range from smartphones to tablets to virtualization to cloud services such as storage and telepresence. Social and ethical impact of cloud technology trends are discussed and debated.

COM 261            3 credits

Poetry Writing

Workshop in which principle forms of poetry are studied, with emphasis on developing student's own ability to write poems.

COM 263            3 credits

Fiction Writing

Study of fiction styles/techniques aimed at developing student's ability to write fiction.

COM 310            1 credit

Tutoring and Teaching Writing

This course provides a theoretical and pedagogical framework for writing instruction. Students will conduct research as it relates to writing in their own disciplines and learn best practices for communicating in small groups or one-

on-one settings. All students enrolled in this course are eligible to apply to work in the Writing & Learning Center or work as a Writing Mentor. Participation in the course does not guarantee employment. Course is required for all English/secondary education majors and recommended that these students enroll in the fall semester; permission from instructor(s) required for all other students. Course may be repeated for credit.

COM 330            3 credits

News and Feature Writing

Thorough study of news writing techniques; emphasis on development of feature stories, investigative pieces, and multi-source news articles for a variety of media.

COM 332            3 credits

Multimedia Design and Editing

Designed to introduce students to the processes involved in planning, designing, creating and copy-editing multimedia projects. Topics include design and layout principles for a variety of print and electronic publications, image and text manipulations, and editing for consistency and clarity. Cross-listed with CIS 332.

COM 340            3 credits

Advertising Workshop

Students plan and produce advertising programs for the college and/or non-profit organizations; workshop-styled atmosphere.

COM 342            3 credits

Social Media Marketing

Facebook, Twitter, YouTube, LinkedIn and Pinterest — in order to stay competitive in today's world, companies and organizations need to implement social media into their integrated communications plan. This course will primarily focus on social media, but will also explore other facets of digital marketing. Topics to be covered include social media platforms, content development, multichannel integration, organic and paid search, mobile opportunities, web analytics and measurement, legal and security issues, crises, best practices and trending issues. If offered as a service-learning class, students will receive hands-on practical experience by developing a social media marketing campaign for a local non-profit organization.

COM 344            3 credits

Writing for the Workplace

Advanced writing course oriented toward communication beyond the academic world. Assignments include correspondence, memos, resumes, proposals, oral presentations, and one or more major reports. Introduces students to current

communication software, to familiarize with requirements of writing in their specific disciplines, and to help develop a clear, concise writing style.

COM 350            3 credits

Directing for the Stage

Study of the principles and techniques used in leading the production of theatre and the development of the director. Students mount a one-act play.

Prerequisites: COM 134, 150, 155, or permission of instructor. Cross-listed with THR 350.

COM 351            3 credits

Scriptwriting/Playwriting

Study of the writing of dramatic texts for a variety of media — live and electronic. Students are expected to produce a first draft of an original script by the end of the course.

COM 352            3 credits

Video Production

Study of the process of producing a creative work in the video medium. Students are introduced to basic concepts of video production and post-production editing.

COM 353            3 credits

Film Studies

An upper-level examination of film as a form of narrative, a work of art, and as representative of popular culture. Topics vary from semester to semester; they may include specific study of genres, directors, time periods, techniques, adaptations. The course may be repeated under different topics.

COM 355            3 credits

Theatre History

A comprehensive study of the history of theatre from its origins through the Renaissance. Cross-listed with ENG 355 and THR 355.

COM 356            3 credits

Theatre History II

A comprehensive study of the history of theatre from the neo-Classical era through today. Cross-listed with ENG 356 and THR 356.

COM 360            3 credits

Writers Workshop

Seminar for writers who wish to broaden and develop their creative writing skills. Offered as either a poetry writing or fiction writing workshop. May be repeated for credit.



COM 362            3 credits

New Media

This course provides understanding and application of current interactive multimedia, exploring the use and integration of visual, textual, and aural components of digital environments. The challenges of writing for nonlinear and interactive texts are explored through online exercises, electronic presentations and publications, and web design. Cross-listed with CIS 362.

COM 404            3 credits

Arts Operations

Explores business and finance issues associated with working in the arts as a profession. Includes working with arts organizations as well as arts entrepreneurship. Cross-listed with THR 404.

COM 420            3 credits

Law and Ethics of Mass Communication

Study of legal and ethical framework within which mass communication media operate. Examines legal philosophy bearing on the mass media, the development of freedom of expression, and privileges and restraints affecting the media. Topics include the study of libel, invasion of privacy, copyright, contempt and government regulation.

COM 422            3 credits

Social Impact of Mass Media

Investigates the principal research findings concerning the role of mass media in shaping the attitudes, values, and behaviors of our culture. Includes survey of advanced theories, models and practices of mass communication.

COM 432            3 credits

Newspaper Production

Restricted to student editorial staff of the university newspaper, this course requires intensive application (80-100 hours) of skills as copy editors, business managers, or page design and layout editors. Course may be repeated for credit. Prerequisites: COM 131 and permission of the *Alvernian* advisor.

COM 434            3 credits

Senior Production Workshop

Students assume leadership positions in the production of a theatrical event. Experiences may include acting, directing and/or design. Students establish an appropriate project with the director of the theatre program prior to enrolling in the course. Prerequisite: Permission of instructor. Cross-listed with THR 434.

COM 452            3 credits

“The Campus Show” — Television Production

Students are responsible for putting together half-hour television shows that focus on Alvernia University. Students assist in all aspects of television production both in front and behind the camera including anchoring, reporting, producing, lighting, sound, camera and technical directing. Course may be repeated once for credit. Prerequisites: COM 251 or COM 352 or permission of instructor.

COM 480            3 credits

Research Seminar

Qualified students may choose a creative writing project, a mass media or audio-visual production project, or an intensive study of a phase of communication that culminates in a significant research paper. For senior English or communication majors.

COM 481            credits vary

Internship

By special arrangement, a student may be granted up to 12 credits for an extended assignment involving in-depth work in some phase of communication. Such assignments might include an apprenticeship in a TV or radio station, a position as reporter at a local newspaper, internship in the communication division of a corporation or non-profit agency, etc. Prerequisite: 2.5 GPA or permission of department chair.

## **COMMUNITY & ENVIRONMENTAL SUSTAINABILITY**

The minor in community and environmental sustainability is an interdisciplinary program that provides students with an innovative way to enrich their education by providing them with the knowledge and skills to address society's most pressing issues.

Minor: 17 credits

Required 8 credits: BIO 230, BIO 203; CES 330. Electives 9 credits from the following 3 areas: Science-Environmental: BIO 104, 205, 320; PHY 103; Socio-Cultural: COM 131, 422; ENG 106, 207, 309; HCS 420; PHI 250; SW 302; THE 210; Business-Economics: BUS 100, BUS 324.

### **COURSE DESCRIPTIONS**

CES 330            2 credits  
Sustainability Field Experience

The purpose of this course is to give students an opportunity to design, implement, and reflect upon a service project toward community and/or environmental sustainability in cooperation with a community nonprofit or municipal organization. The project requires students to apply knowledge acquired in the minor in community and environmental sustainability program while engaging with a community organization. The course will culminate in a public presentation on the outcomes of the project.

## COMMUNITY ENGAGEMENT

The minor in Community Engagement is an interdisciplinary academic program designed to increase students' understanding of their ability to create positive change in their community and to address serious community issues through the development and implementation of short- and long-term impactful civic projects. Students learn theoretical and moral considerations that underpin community engagement and voluntary service.

**Minor:** 18 credits

**Required:** PHI 207, SOC 212, completion of any designated service-learning course (at least 3 cr), and CE 300; 6 credits selected from: BIO 230, POS 111, PSY 350, SSC 111, SW 201, SW 231, SW 301, SW 303, SW 304, SW 347, SOC 111, SOC 401, and THE 255 (Not more than 3 credits may come from a 100 level course.)

**Certificate Program:** 12 credits

The Certificate Program in Community Engagement is an interdisciplinary program designed to increase students' ability to create positive change in their community and to address serious community issues through the development and implementation of short- and long-term impactful civic projects. Students identify and apply practical considerations that underpin community engagement and voluntary service.

**Required:** PHI 207, SOC 212, completion of any designated service-learning course (at least 3 credits), and CE 300.

CE 300            3 credits  
Fieldwork in Community Engagement

This course provides students an opportunity to design, implement and reflect upon a community engagement project in cooperation with a community nonprofit, citizen's organization, or municipal organization. The project requires

students to apply knowledge acquired in the Minor in Community Engagement and Certificate in Community Engagement programs while engaging with a community organization. The course will culminate in a public presentation on the outcomes of the project.

## COMPUTER & INFORMATION STUDIES

*See also Digital Media Minor*

### COURSE DESCRIPTIONS

CIS 104            1 credit

MS PowerPoint and Beyond: Ways to Present

Part of the Alvernia Basic Training Series. Hands-on experience in MS PowerPoint, GoogleDocs, and other cloud-based presentation packages. Lessons in PowerPoint and the other packages will include themes; tables and graphs; transitions and animations; printing notes, handouts and slides; customizing presentations; embedding and linking files; saving, managing and delivering presentations; collaboration on a presentation; presenting at a distance.

CIS 105            1 credit

MS Excel Bootcamp

Part of the Alvernia Basic Training Series. Hands-on experience in Microsoft Excel including data manipulation, formulas, filters, formatting and conditional formatting, charting, use of ranges and multiple spreadsheets, and pivot tables.

CIS 106            1 credit

MS Word Bootcamp

Part of the Alvernia Basic Training Series. Hands-on experience in Microsoft Word including APA and MLA document formatting, page formatting, tabs, columns, mail merge, footnotes, endnotes, comments, and document sharing.

CIS 107            1 credit

MS Access Bootcamp

Part of the Alvernia Basic Training Series. Hands-on experience in Microsoft Access including database design and organization, tables, compound and foreign keys, queries, forms and reports.

CIS 114            3 credits

Microcomputer Applications: Word Processing, Spreadsheets and Database  
Study value of microcomputer as a tool in business, school and home through projects involving use of currently popular word processing, database, and

spreadsheet packages. Students may audit course only with instructor's permission.

CIS 115            3 credits

#### Technology for the Workplace

Essential workplace computer knowledge and skills. Provides requisite fundamental knowledge expected for most professional disciplines. Topics include computer system components, peripherals, media formats, communications and networks, computer security, office productivity software, specialized software, hardware, societal implications, and finer points of using the Internet. Prerequisite: Basic familiarity with word processing, spreadsheets and presentations.

CIS 152            3 credits

#### Intro to Programming I

Primarily logic development and structured programming, although concepts of systems analysis and design are reviewed. Programming features standard input and output, data types, declarations, and functions (including pass by value and pass by reference), as well as introduction to object orientation and the .NET framework. Importance of planning and documentation is stressed.

CIS 205            3 credits

#### Scripting Languages

Developing proficiency in general purpose scripting languages. Scripting languages form the basis for a variety of computer applications, from hardware and software configuration, to rendering images and graphics on web pages. The student will become familiar with a variety of terminal emulators and examine assorted shells, security issues, editors, mechanisms for handling user input, and structured commands along with basic scripting methods. Differences in standalone, networked and web-based computers will be discussed. Specific scripting software will be selected from languages commonly used in business applications. Prerequisites: CIS 152 or permission of the instructor.

CIS 226            3 credits

#### Programming II

Continued development of programming skills. Emphasis on object-oriented concepts; introduction of data structures and logic development. Topics include classes and abstract data types; arrays, searching and sorting, strings, data storage options, memory allocation and management; and operator overloading. Programming assignments feature increasing size and complexity. Prerequisites: CIS 152 or permission of instructor.

## CIS 235 3 credits

## Networking and Communications

Examines communications: data representation, media, equipment, transmissions and protocols. Topics include the open systems interconnection model, local area networks, wide area networks, distributed networks, and the Internet. Prerequisites CIS 115 or 3 CIS boot camps from CIS 104, 105, 106, and 107.

## CIS 240 3 credits

## Computer Organization

Basic digital circuits, data representation and transfer, processor organization, digital arithmetic, assembly language programming, interplay of hardware, software, and firmware. Prerequisite: one previous programming course.

## CIS 311 3 credits

## Principles of Management Information Systems

Examines the hardware and software components of information systems and the strategic uses of information. Topics include DSS (decision support systems), Executive Information Systems, AI (artificial intelligence), Expert System, and information ethics. The focus is on the Internet as an information tool and on E-Commerce. Prerequisites: BUS 101; BUS 206 and evidence of computer information literacy.

## CIS 315 3 credits

## E-Commerce

The study of how business is conducted over the Internet. Hands-on simulation of a commercial website over which products are bought, sold, and supported. Topics include good design of an e-commerce site, database connection, third-party payment, and customer support. Other topics include commercial use of social networking, site security and viral marketing. Prerequisites: One programming or scripting language, CIS 235. BUS/CIS 311 is recommended.

## CIS 328 3 credits

## Programming for Rapid Application Development

Introduces the upper-level student to object-oriented application development using graphical user interface. Topics include: events and triggers; design-time and run-time changes to properties; functions and function calls; conditions and selection control; loops; built-in and user-defined data types; access to files and databases; and graphics. Course can be taken multiple times for different topics. Prerequisites: at least one programming language or permission of instructor.

## CIS 330 3 credits

## Operating Systems

Basic principles of operating systems. Structure and implementation of multi-programmed and time-shared computer systems. Sequential, interacting, and

shared processes. Memory management, synchronization, protection, virtual memory, input-output, buffering, interrupt processing. Prerequisite: CIS 240.

CIS 332            3 credits

#### Multimedia Design and Editing

Examines the processes and theories involved in planning, designing, creating and copy-editing multimedia projects. Topics include design and layout principles for a variety of print and electronic publications, image and text manipulations, and editing for consistency and clarity. Cross-listed with COM 332.

CIS 338            3 credits

#### Advanced Rapid Application Development

Students explore advanced programming concepts for RAD: graphics and animation, 3D simulation, DDE (dynamic data exchange), OLE (object linking and embedding), ActiveX controls, and accessing a relational database, including SQL and Data Access Objects. Prerequisite: CIS 328 or permission of the CIS faculty.

CIS 362            3 credits

#### New Media

This course provides understanding and application of current interactive multimedia, exploring the use and integration of visual, textual, and aural components of digital environments. The challenges of writing for nonlinear and interactive texts are explored through online exercises, electronic presentations and publications, and web design. Cross-listed with COM 362. Prerequisite: permission of instructor.

CIS 405            3 credits

#### New Technologies Research Seminar

Through journal readings, speakers, site visits, webinars and significant research, students will learn about, analyze, and present current and leading-edge technologies related to Information Technology. Prerequisites: at least three CIS classes 200-level or higher and junior or senior status.

CIS 410            4 credits

#### Systems Analysis and Project Management

Advanced study of structured systems development. Emphasis on strategies and techniques of structured analysis and structured design for producing logical systems specifications and deriving physical system designs. This course includes a project management dimension as a fourth credit that will complement and reinforce analysis and design strategy. Prerequisite: at least one programming course or Bus 311/CIS 311.

CIS 420                    3 credits

#### Database Management Systems

Architecture of a database system; physical and logical data organization; relational, network and hierarchical data model; query languages and optimization; integrity, security and concurrency. Prerequisite: CIS 351 or permission of instructor.

CIS 481                    3 credits

#### Internship

By special arrangement, a student may be granted up to 12 credits for an extended assignment involving in-depth work in some phase of computer science. Such assignments might include an apprenticeship for an information technology firm, or work as a team member engaged in an information technology project for a local business. Prerequisite: 2.5 GPA or permission of department chair.

## **CRIMINAL JUSTICE ADMINISTRATION**

The Criminal Justice Department is dedicated to providing the theoretical, practical and professional knowledge needed in today's environment to be successful in the fields of law enforcement, corrections, probation and parole, private security and related careers. Emphasis is placed on preparing the student to enter the professional workplace or continue studies in graduate school. The curriculum is designed to provide students with expert instruction on the most current trends, policies and practices in the discipline. This is not a "one size fits all" major, but one that provides the variety offered in course selection to encourage each individual to build a personal program for the future with the assistance of an advisor.

Alvernia University has recruited faculty who are former or current practitioners in their respective criminal justice disciplines. The strength of the department lies in the philosophy that faculty members teach in areas wherein they have multiple years of experience. The curriculum of the criminal justice administration major demands intensive classroom learning combined with extensive research and a required internship experience. The internship is completed as a class, CJ 408 Agency Practicum.

In the semester before the internship, students must obtain the following clearances:

- Pennsylvania State Criminal History Record (Act 34),
- Child Abuse History Clearance (Act 151),
- Federal Criminal History Record (Act 114)



The clearances must be on file in the Criminal Justice Department in the semester prior to enrolling in the internship. If the required clearances are not received in a timely basis, students will not be allowed to enroll in the internship. If a student fails a clearance, the student is responsible for finding an internship that will accept them even though they failed the clearance. The internship agency decides whether or not to accept a student with clearance issues. The chair of the Criminal Justice Department has final approval for all internship placements and sites.

At the completion of sixty (60) credits at Alvernia University, criminal justice majors must have maintained a C average overall, and obtained a C or better in all required criminal justice courses. A criminal justice major may use the repeat/delete option for a required criminal justice course a total of two (2) times. If the preceding requirements are not met, students will be compelled to withdraw/drop criminal justice as a major.

Students with career goals in law enforcement have the option of the Law Enforcement Track and may attend the Reading Police Academy to obtain Municipal Police Officer Certification (ACT 120) as part of their four-year degree without extended time or expense. Students apply for the Academy during their junior year. If accepted, these students will attend the Academy during the fall semester of their senior year at Alvernia University. If the students successfully complete the Academy, they will be awarded fifteen (15) Alvernia University credits.

Students with criminal histories and/or serious motor vehicle violations may not be able to successfully complete this program. As noted above, criminal justice majors are required to complete an internship. If a student has a criminal record, agencies may not accept them as an intern, and the student will not be able to complete their criminal justice degree at Alvernia University. In addition, students with criminal records may not be able to obtain employment in the discipline, and should consider another major course of study.

**Major:** 48 credits

CJ 101, 102, 201, 216 or 218, 220, 221, 272 or 274, 302, 350, 377, 379, 403, 408, 422. CJ elective course: 3 credits. All required CJ courses must have a grade of C or higher.

**Minor:** 18 credits

Required courses: CJ 101, 102, 218, CJ 379, and two CJ elective courses (6 credits).

## **COURSE DESCRIPTIONS**

CJ 100                    3 credits

Exploring Criminal Justice

This course is designed to expose students to the field of Criminal Justice through readings and related experiences. Students will develop personal and professional goals. Readings will include varied areas of exploration, including: law enforcement, the Court, probation and parole, prisons and victim services.

CJ 101                    3 credits

Introduction to Criminal Justice

Introduction to organization, administration and operation of the criminal justice system in the United States, with a broad view of interrelationships of police, courts and the correctional process. Major problems discussed include constitutional guarantees, conflicting purposes, mutual support and a view of recommended reforms. CJ 101 is a prerequisite for all other courses in the major.

CJ 102                    3 credits

Criminology

This course examines classical and contemporary theories of crime, nature and causes of crime and criminal behavior as well as relationships between law and crime. Emphasis is placed on identifying various criminological theories and their advocates to give students an overview of the various theories posited as causes of criminal behavior and crime. Prerequisite: CJ 101.

CJ 175                    3 credits

Fundamentals of Criminal Investigation

Principles and methods of investigating criminal offenses to include: history, theories and problems of criminal investigations; crime scene searches; collection, preservation, and recording of physical evidence; impartial gathering of information; interview and interrogation methods; identification of modus operandi and sources of information; development and handling of informants; scientific aids to investigating, and report writing. Prerequisite: CJ 101.

CJ 201                    3 credits

Criminal Law

Study of criminal offenses by statutory and common law definition/classification; laws of arrest, search and seizure; and analysis of constitutional and statutory concepts governing introduction and use of information in formalized legal proceedings. PA Crimes Code is used as supplemental text reference. Prerequisite: CJ 101.

CJ 203                    3 credits

Criminalistics

Familiarizes the student with the techniques, skills, and limitations of the modern crime laboratory with respect to collection and processing of physical

evidence. Areas analyzed include but are not limited to serology, DNA, hairs and fibers, fingerprints, soil, paint, and glass fragments.

CJ 207                    3 credits

#### Rules of Evidence

Rules of evidence, principles of exclusion, evaluation and examination of evidence and proof, competency, consideration of witnesses, laws of search and seizure, and court procedures from perspective of moving evidence into court proceedings. Prerequisite: CJ 201.

CJ 216                    3 credits

#### Gender and the Criminal Justice System

This course reviews diversity in general as it pertains to women and the Criminal Justice System. During this course, the history and contribution of equity issues are examined as they relate to contemporary diversity themes. Also examined are: gender discrimination, the "glass ceiling", sexual harassment and role barriers. The class focuses on the role of gender in the Criminal Justice System as it relates to victims, offenders and as professionals. This course fulfills the human diversity graduation requirement. Prerequisite: CJ 101.

CJ 218                    3 credits

#### Multicultural Issues in Criminal Justice

Examines diversity issues as they impact criminal justice agencies both internally and externally on race, sex, religion, ethnicity and related subjects. Racism, stereotypes and scapegoating themes are developed. This course fulfills the human diversity graduation requirement. Prerequisite: CJ 101.

CJ 220                    3 credits

#### Writing for the Criminal Justice Professional

This course is designed for students in the Criminal Justice field to develop proficiency in writing constructively, major specific. It focuses on acceptable scholarly writing as well as investigative report writing, information gathering, report composition, note taking, case history reports, research and grant proposals used by the Criminal Justice profession. This course meets the Writing Enhanced requirement. Prerequisite: CJ 101.

CJ 221                    3 credits

#### Research Methods I for Criminal Justice

Introduces students to fundamental issues associated with the application of scientific methods to criminal justice problems. Topics covered include research design, the relationship between theory and research, types of research methods, ethical considerations, and data analysis techniques. Prerequisite: CJ 101.

CJ 235                    3 credits

Community Policing

Analysis of the relationships among police, courts, correctional systems, and community resources. Emphasis is on community policing as a continuing departmental philosophy that in which the police and the community forms a partnership to identify and solve crime problems. A variety of programs and resources are evaluated.

CJ 272                    3 credits

Probation and Parole

Examines the role of probation and parole as a component of the criminal justice system. Areas analyzed and discussed include probation and parole philosophy, programs and practices, theories, case law history, system components, supervision, presentence investigations, specialized programs, innovative sentencing, training issues, and probation and parole standards. Prerequisite: CJ 101.

CJ 274                    3 credits

Corrections and Rehabilitation

Survey of the correctional field covering incarceration, institutions, probation and parole, modern correctional counseling, case method, and techniques of supervision. Prerequisite: CJ 101.

CJ 285                    3 credits

Victimology

Deals with the many concerns that surround the victims of crime and address the issues that tend to “twice victimize” the victim through the ways in which they are treated by the system that is supposed to help them. Current policies, trends, theories, and programs for dealing with the victims of crime and their family or survivors are discussed. Specialized responses to victims of violence as well as the etiology of victimization is presented. Historical antecedents, victim compensation, victim impact statements, support agencies, and public policy are presented. This course may be taken for four credits as an option without extra charge for those students who opt to include a community service component. Prerequisite: CJ 101.

CJ 301                    3 credits

Organized Crime

Nature and problems of the criminal organization including historic roots; causal factors of organized crime in American society; activities, organizations, and economics of organized crime including the trafficking of controlled substances; the problems of corruption and graft, and the development of strategies to control the activities of organized crime, drug trafficking organizations including drug cartels and outlaw motorcycle gangs, gangs, and the new ethnic mobs. Proactive strategies of investigation are presented including the use of

undercover police officers, confidential informants, and electronic surveillance.  
Prerequisite: CJ 101.

CJ 302                    3 credits

#### Judicial Process and Procedures

Explanation of the role of the judiciary, its historical background and development in the United States with stress on due process of law, and the judicial procedure by which an arrested offender enters the system. Problems of change and reform of the process are also discussed. Prerequisite: CJ 201.

CJ 308                    3 credits

#### Commercial Security Management

Retail, commercial and corporate security functions of organizations and establishments with emphasis on internal theft, shoplifting, armed robbery, dignitary protection, economic espionage, and tested security programs. Role of management, public relations, and special laws and procedures are discussed.

CJ 311                    3 credits

#### Criminal Profiling

Examines the history and contemporary use of profiling in the criminal justice field. Crime scene characteristics, as well as personality and behavioral characteristics used to identify offenders are presented. Training and research opportunities in profiling are provided. Prerequisite: CJ 101.

CJ 346                    3 credits

#### Terrorism

Students gain an understanding of the concept of terrorism through an integrated approach to the subject, which includes domestic and international issues. Effects on the political agenda will be viewed from the religious and historical perspective. Case studies of terrorist groups and their activities are presented.

CJ 350                    3 credits

#### Professional Seminar in Criminal Justice

This course emphasized development of skills needed for professional settings. Outcomes of the course include a resume, analyses of jobs available in the field of criminal justice; team building; individual oral and written presentations; completion of required background clearances and an evaluation by an interview panel. Prerequisites: CJ 101; junior status.

CJ 377                    3 credits

#### Juvenile Delinquency & Juvenile Justice

Nature and extent of delinquency is discussed. Explanatory models and theories of juvenile delinquency are presented. History, philosophy, and evaluation of juvenile court practices and procedures are presented including the role of the

juvenile officer. Prevention and intervention programs and their techniques are illustrated. Prerequisites: CJ 101 and 102.

CJ 379                    3 credits

#### Ethics in Criminal Justice

Examines challenge and conflict between professional standards of behavior and the acceptable system within the organization. Roles of Inspector General and Internal Affairs are presented. Issues concerning dual relationships, corruption, perjury, false reports, gratuities, wrongful acts, and code of silence are discussed. Civil Rights and brutality, and use of deadly force are viewed as ethical concerns. Honesty, integrity and ethical behavior in criminal justice professions are key themes in the course. Prerequisite: CJ 101.

CJ 403                    3 credits

#### Current Issues in Criminal Justice

This course will address current issues in the field of criminal justice. This course is offered to broaden the student's experience, as well as assuring advancements and changes in the field has a mechanism to be addressed within the program structure. Course may be repeated for credit with different topics. Depending on the issue(s) identified, this course can be utilized as an elective for the Criminal Justice Tracks. Prerequisites: CJ 101; junior status.

CJ 408                    6 credits

#### Agency Practicum

Actual involvement in an internship designed to broaden educational experience through appropriate observation and assignment with criminal justice, private corporate security, and service agencies on the local, state, or federal level. It is the responsibility of the student to locate and secure the internship placement. Prerequisites: 2.0 GPA overall, 2.0 GPA in major, senior status (90 or more credits), background clearances, CJ 102, 201, 221, 350.

CJ 411                    3 credits

#### Domestic Violence

Study of various forms of violence that take place within the family and partnership relations. Focuses on spousal abuse, partner abuse, adolescent abuse, abuse of elderly and societal/legal responses. Prerequisites: CJ 102 and 201. May be taken as elective for women's studies minor without prerequisites.

CJ 412                    3 credits

#### Undercover Investigations

Comprehensive study of undercover operations as they pertain to various aspects of CJ system, including but not limited to: controlling an informant, various dangers and precautions associated with undercover operations, forensic photography and benefits provided to law enforcement and private/corporate security. Prerequisites: CJ 201 and 302.

CJ 422                    3 credits

### Crisis Management

Encompasses an overview of crisis as it affects law enforcement officials and the criminal justice system, including dealing with suicidal individuals, barricaded subjects, hostage takers and their hostages. Psychological and behavioral profiles of perpetrators and victims are discussed. Protocols for dealing with the several identified issues are presented. Students will participate in classroom scenarios and exercises designed to incorporate the material presented. Prerequisites: CJ 101, 201, and either 216 or 218, senior status or permission of instructor.

CJ 426                    3 credits

### Interview and Interrogation

Study of interview and interrogation techniques to include: a step-by-step pragmatic approach using psychological methods and principles; studies of actual criminal cases, legal issues involved; and extensive classroom practical exercises. Prerequisite: senior status in CJ major or permission of instructor.

CJ 444                    3 credits

### Violent Crime

The nature, theory, history and psychology of violence in America are discussed through a study of the crimes of violence including homicide, rape, assault, and serial crimes. Interpersonal, group, and official violence is explored. Prerequisites: CJ 201 and 102.

CJ 470                    15 credits

### Police Academy

The basic training course prescribed by ACT 120 is designed to provide students with the initial skills to begin their police careers. Prerequisites: senior status, permission of instructor, successful completion of application process and acceptance by the Reading Police Academy. Prerequisites: CJ 102, 201, 221, and 403.

*NOTE: Prerequisites may be waived for non-criminal justice majors. The decision is made by the Criminal Justice Department Chair.*

## DIGITAL MEDIA

Featuring course selections from CIS, Communication, Art and Business, the digital media minor is a flexible interdisciplinary minor designed to complement a wide variety of majors. Digital media encompasses technology, information, culture and the multiple ways in which they interact. In today's technology-driven environment, an understanding of social media and the mastery of digital skills are not only desirable but also necessary.

### **Digital Media Minor:** 21 credits

CIS 115 or 3 of CIS 104, 105, 106, 107; ART 281. 6 credits from COM 257, 332, 342, 362. 9 credits from ART 122, 124, 209, 319, BUS 311, COM 131, 240, 244, 251, 340, 344, 352, 432, 452. Course substitution, if necessary to complete the minor in a timely fashion, may occur with approval by the department chair in the discipline for which the substitution is sought.

## ECONOMICS

With a minor in economics, students will be in demand in both the private and public sectors. A course of study in economics will provide students with an understanding of economics and train students to engage in critical thinking by studying behaviors of firms, workers, resource distribution, and the performance of exchange systems. Knowledge of economics is important to creating an informed public, and a minor in economics will equip students to engage society in an informed manner.

### **Minor:** 18 credits

Required courses: ECON 248, 249, 348, 349 plus 6 credits of electives; 3 of which may be applied from BUS.

## COURSE DESCRIPTIONS

ECON 110            3 credits

Current Economic Issues

The class is designed to use basic economic theory and demonstrate how it is applied to current real-world public policy decisions, and how the outcomes have immediate and personal impact.

ECON 218            3 credits

Personal Economics

Focuses on managing personal finances and financial planning. Prepares students to understand how consumers make choices in an economy. Course does not presuppose any formal knowledge of economics, accounting or finance.



Major topics discussed include: budgeting, credit, housing and transportation, economy, insurance, basic investing, financial planning and income tax, and retirement/estate planning.

ECON 248        3 credits

Macroeconomics

Surveys the performance of the American economic system through National Income Accounting with emphasis on the aggregates of government, consumers and business. The focus is on total employment, total income, total output, general level of prices and the major current problems of unemployment, inflation, and fiscal and monetary policy.

ECON 249        3 credits

Microeconomics

Surveys behavior of individual economic units (household and business firms) and the price mechanism interacting in the market structures of American capitalism. Emphasis is on the specific product price and specific amount of production in an efficient and profit-oriented competitive economic system.

ECON 348        3 credits

Intermediate Macroeconomics

Measurement and determination of national income, employment, and output; economic significance of consumption, saving, investment, foreign trade, money and prices, fiscal and monetary policy. Prerequisite: ECON 248.

ECON 349        3 credits

Intermediate Microeconomics

Theory and application of microeconomics; demand, supply, optimal consumer choice, production, cost, profit-maximizing pricing and output decisions, employment of resources, externalities, efficiency and welfare. Prerequisite: ECON 249.

ECON 352        3 credits

History of Economic Thought

Survey of economic ideas from Ancient Greece to present, emphasizing the changing focus and methodologies of economics relative to economic problems perceived at the time.

ECON 353        3 credits

Economic Justice and Judeo-Christian Conscience

Examination of economics and Judeo-Christian concern for justice. Topics include: the meaning of "economic justice" in economic development; North-South relationships; economic system theories; poverty and prosperity; business ethics and labor-management issues; issues related to economic faithfulness for individual Judeo-Christians.

ECON 432        3 credits

### International Political Economy

The course emphasizes the nature of international trade and international economic theory, monetary and fiscal policies, and development. It will discuss the interplay between politics and economics. Current problems affecting international economic relations will be discussed.

## EDUCATION

The teacher education program combines a sound liberal arts background, fieldwork, and studies in human growth and development. In addition, a concentrated focus on curriculum, methods, and materials serves to prepare candidates to work in a variety of educational settings.

Students are admitted into the Education Department and are fully accepted when the following criteria have been met:

- Successful completion of 48 credit hours
- Six (6) semester credit hours in college level mathematics
- Three (3) semester credit hours in college level English Composition
- Three (3) semester credit hours in college level English/American Literature
- Successful completion of the Pre-Service Academic Performance Assessment (PAPA) or Core Academic Skills for Educators (CORE) in Reading, Writing, and Mathematics.
- Minimum cumulative grade point average (GPA) of 3.0 or higher
- Application Form for Certification Candidacy

All education students complete three Field Experiences and a Student Teaching experience. Before the first Field Experience, the education student must obtain the following clearances: State Police Criminal Records Check (Act 34), the Child Abuse History Clearance (Act 151), and the Federal Criminal History Record (Act 114) and an annual TB test. These clearances must be obtained and submitted again before the Student Teaching semester. In all cases, the clearances must show no violations.

Prior to student teaching, the student must have the approval of the Education Department, completion of the required coursework, a GPA of 3.0 or higher, and have taken the appropriate Pearson and/or ETS content assessment. Achievement of a “C” or better in each required education course, and a minimum cumulative grade point average (GPA) of 3.0 or higher is required for certification.

Upon completion of the approved state program in education, and the successful completion of all PDE required assessments, the student may apply for Pennsylvania Certification. Applicants submit the required information and documentation through the Pennsylvania Teacher Information Management System (TIMS).

### **EARLY CHILDHOOD EDUCATION (GRADES PRE K-4)**

The early childhood education program (Pre K-4) prepares teachers to serve a diverse group of young children and families in a variety of educational settings. The program prepares students for Pennsylvania Certification in Early Childhood Education focusing on the learning needs of children through age nine.

**Total Program:** 80-82 credits

**General Education Core:** The following are required as part of the General Education Core: MAT 105, PSY 101, HIS 112, BIO 102 or 109.

**Professional Education:** SPE 100, 315, ED 200, 204, 208, 209, 210, 270, 302, 310, 313, 314, 400, 402, 403, 404, 414, 436, 440, 470, 472

**Related Requirement:** MAT 106

### **EARLY CHILDHOOD EDUCATION (PRE K-4) AND SPECIAL EDUCATION (PRE K-8) CERTIFICATION**

This program leads to a dual Pennsylvania Certification in both Early Childhood Education (Pre K-4) and Special Education (Pre K-8). The design of the dual certification program allows candidates to effectively teach students with special needs in the regular classroom, along with preparing them to teach students in most special education classrooms that are Pre K-8.

**Total Program:** 92-93 credits

**Liberal Arts Core:** The following are required as part of the Liberal Arts Core: MAT 105, PSY 101, HIS 112, BIO 102/109.

**Professional Education:** ED 200, 204, 208, 209, 210, 270, 302, 310, 313, 314, 400, 402, 403, 404, 414, 436, 440, 470, 472.

**Special Education Requirements:** SPE 100, 315, 335, 345, 410, 425.

**Related Requirements:** MAT 106

## MIDDLE LEVEL EDUCATION (GRADES 4-8)

The Middle Level Program is grounded in adolescent development and prepares teachers to serve a diverse group of learners in a variety of educational settings. The program prepares students for Pennsylvania Certification in Middle Level Math and Middle Level ( 4-8) Math and Science concentrations.

## SECONDARY EDUCATION (7-12)

Certification in Biology, Chemistry, English, Mathematics or Social Studies can be earned by Alvernia students who first complete their undergraduate degree in that content area and demonstrate content knowledge on Pennsylvania's required Praxis exam. The following coursework is required and can be started as early as the undergraduate senior year, and then completed as part of Alvernia University's post-baccalaureate program:

ED 203, ED 204, MED 505, MED 515, MED 545, MED 574, MED 615, MED 665, MED 670 and MED 672.

*Interested students can earn secondary education teaching certification as well as a Master of Education degree with an additional 15 graduate credits:*

COR 520: Ethics and Moral Leadership (3 credits)-available fully online

MED 518: Quantitative Research Methods (3 credits)

MED 520: Educators as Researchers (3 credits)

MED 610: School Law (3 credits)

MED 680: Research Seminar (3 credits)

## COURSE DESCRIPTIONS

*\*500 and 600 level courses are for the M.Ed. program. Core courses for this program are located in the Liberal Studies section of this catalog. See the Graduate Catalog for course descriptions.*

ED 200                    3 credits

Fundamentals of Early Childhood Education

The purpose of this course is to provide prospective teachers with an introductory overview of the historical, philosophical, social and cultural foundations of early childhood education. Topics covered will include becoming a professional, curriculum models and approaches, and assessment and instructional practices for young children birth through age 8. Twenty (20) hours of required fieldwork in a PreK-4 classroom are embedded within this course.

ED 203                    3 credits

Social Foundations for the Middle Learner (Grades 4-8)

This introductory course provides an overview of the historical, philosophical, social and cultural foundations of education. Topics covered include professionalism, ethical and legal issues and the philosophy of middle school education. Twenty (20) hours of required fieldwork in a 4-8 or 7-12 classroom are embedded within this course.

ED 204                    3 credits

Human Development and Learning

This course explores the various theories and stages of human development. Physical, cognitive, social, personality, and moral development from birth to early adolescence are examined, as well as typical and atypical patterns of language development. Culture and socio-economic status are studied as they relate to human development and learning.

ED 208                    1 credit

Health & Motor Development/Elementary School

This course addresses the developmental foundations of health, fitness and motor development. Content includes teaching strategies, selection of materials, and assessment to promote the development of movement concepts and ways to foster a positive attitude toward physical activity and healthy choices.

ED 209                    3 credits

Planning, Instruction, & Assessment

Study of research-based teaching methods and education measures for students in diverse classrooms including lesson planning, implementation, and assessment.

ED 210                    3 credits

Methods for the Elementary Inclusive Classroom

This course addresses the learning needs of exceptional and at-risk students, kindergarten through high school, and the needed instructional management strategies to be acquired by special education and regular education teachers who will teach these students in inclusive classroom settings. This course fulfills the human diversity graduation requirement. Prerequisite: ED 209, SPE 100.

ED 215                    3 credits

Adolescent Development

This course explores the various and multi-dimensional elements of adolescent development, from ages 9 to 18, including social, emotional, physical, moral, cognitive, and academic. In addition, the individual's place in society and the role of peers will be addressed.

ED 270                    3 credits

ESL for Teachers

This course will provide teacher candidates with information about English Language Learners (ELLs) in American classrooms. The course will address: principles of second language learning and teaching, English language acquisition, cultural diversity, lesson planning and delivery, PA English Language Proficiency Standards (ELPS), research-based teaching methods and varied assessments. Additionally, current federal, state and local regulations relative to ELLs will be presented. This course meets the Writing Enhanced requirement.

ED 302                    3 credits

Principles of Writing Instruction

This course focuses on the theoretical knowledge and practical strategies for the teaching of language arts with an emphasis on writing. In-depth studies of handwriting, spelling strategies, grammar, developmental stages of writing, and the modes of writing including poetry. An additional focus will address the assessment of students' writing progress. Prerequisite: SPE 315.

ED 310                    3 credits

Skills for Early Childhood Education

The skills for establishing a learning environment and advancing cognitive, physical, creative, communication, and social development in young children are covered in this course. These skills are derived from the original six competency goals refined by the Council for Early Childhood Professional Recognition sponsored by the National Association for the Education of Young Children. Time in this course will be dedicated to Early Childhood Praxis preparation.

ED 313                    3 credits

Managing Classroom Learning Communities

This course will prepare teachers to be educational leaders who effectively manage their classrooms. It will focus on taking a pro-active approach to create a positive learning environment for all students. This course will operate from a perspective that it is the teacher's responsibility to bring an enhanced level of professionalism and strong sense of ethical behavior to the classroom. Special attention will be given to the recognition that today's classrooms are inclusive and contain students with a variety of needs and learning styles that need to be accommodated. A successful learning environment requires effective lesson plans and appropriate communication with students, parents, administration, and community resources. Twenty (20) hours of required fieldwork are embedded within this course.

ED 314 3 credits

#### Teaching the Arts in Elementary School

The purpose of this course is to look at the role of art and music, specifically in the child's physical, social, emotional, cognitive, musical, and creative development. The concepts of creativity and aesthetics, and their relationship to enriching the school curriculum content areas: language arts, math, science, and social studies will be explored. Topics will include teaching methods, planning and implementing dramatic play, puppetry, movement, and how to include multicultural holidays into the curriculum.

ED 333 3 credits

#### Literacy Methods for Middle and Secondary Inclusive Classrooms

This course is concerned with helping adolescents become more skillful with reading, writing, speaking, listening, viewing and performing in all content areas. Participants will explore strategies and methods to effectively improve literacy skills (comprehension, vocabulary, writing) of middle and secondary students within the context of demanding subject matter classes. Course content will include strategies to address students with special educational needs, English language learners and other diverse learning styles.

ED 400 3 credits

#### Assessment and Evaluation

Assessment and Evaluation is an introductory course in measurement and evaluation in education. It is an attempt to acquaint the student with the relationship between assessment and the teaching process. The student will be introduced to the testing process in schools, techniques for preparing teacher-made tests and interpreting standardized tests.

ED 402 1 credit

#### Professional & Legal Responsibilities for Teachers

This course focuses on the development of dispositions required in the teaching profession, as well as professional and legal issues that influence policy and procedures in public schools. The concept of professionalism will be defined and discussed in depth, as well as a thorough analysis of the Pennsylvania Code of Practice and Conduct for Educators.

ED 403 3 credits

#### Reading Methods for the Elementary Inclusive Classroom

Through engaging instructional experiences learners will explore current best practices in literacy instruction and balanced literacy development. Learners will acquire the skills, attitudes, and theoretical knowledge to integrate literacy standards for diverse student populations. Strategies designed to improve thinking skills and communication will help the learner to infuse comprehensive literacy strategies into his/her repertoires of teaching approaches. Co-requisites: ED 404, 440, 414, 436.

ED 404                    3 credits

Teaching Mathematics in the Elementary School

Study of content, methods and materials for helping elementary school students develop mathematical concepts and problem-solving skills. Emphasis on strategies that take into account students' developmental levels and need for active participation in the learning process. Includes assessment of student outcomes. Co-requisites: ED 403, 440, 414, 436.

ED 414                    3 credits

Teaching Social Studies in Elementary School

As an academic field for young children, social studies includes geography, history, economics, government, environmental science, and current events. The teaching skills covered in this course for creating an integrated social studies curriculum are derived from the Curriculum Standards for Social Studies. Co-requisites: ED 440, 403, 404, 436.

ED 426                    1 credits

Field Experience IV

This experience provides the candidate with the opportunity to apply theory to practice in learning, motivation and development through lesson plans, assessment and management. There will be supervised observation and teaching in local school sites with an emphasis on teaching individual lessons.

Co-requisite: ED 402.

ED 436                    3 credits

Field Experience III

This experience provides the candidate with the opportunity to apply theory to practice in learning, motivation and development through lesson plans, assessment and management. The experience will provide opportunity to develop lessons that include reading, math, science, social studies strategies.

This semester will provide students with practical classroom experience on a daily basis. Dual-major students will split the classroom experience between a special education setting and an inclusive general education setting. There will be supervised observations of the teacher candidates by school district and university personnel. The observations will emphasize teaching individual lessons. Co-requisite for Pre-K-4: ED 440, ED 403, ED 404, ED 414, Co-requisite for middle school: ED 460, ED 461, ED 463, ED 464.

ED 440                    3 credits

Teaching Science in Elementary School

This course strengthens content background of the PreK-4 teacher candidates and models methods for presenting this content through hands-on, interactive learning experiences. Evaluation of student outcomes is studied. Topics include: earth and universe, weather, geology, oceanography, energy, matter and life



forms. Prerequisite: lab science requirement. Co-requisites: ED 403, 404, 414, and 436.

ED 460            3 credits

#### Teaching Literacy/Language Arts to Developing Readers

The purpose of this methods course is to provide teacher candidates with the strategies and skills needed to extend the literacy, language arts, and reading skills of students, ages 9-13. Course content will include an in-depth study of current research, methodology for teaching vocabulary and comprehension, use of assessments, and lesson planning for various instructional formats. Co-requisite: ED 436.

ED 461            3 credits

#### Social Studies Methods: Pennsylvania's Founding and the World

This course examines the historical and contextual development of Pennsylvania from 1683 to 1824. As a methodology course, it focuses on the types of research and methods of presentation within a classroom setting. Cross-listed with HIS 461.

ED 463            3 credits

#### Methods of Middle School Mathematics

This course is a comprehensive study of how to plan and deliver instruction in the areas of mathematics that are taught in today's middle schools. Topics include lesson planning and implementation, use of instructional media and materials including mathematical computer software, and learning theories in mathematics education. Co-requisite: ED 436.

ED 464            3 credits

#### Methods of Middle School Science

This course is a comprehensive study of how to plan and deliver instruction in the areas of science that are taught in today's middle schools. Topics include lesson planning and implementation, use of instructional media and materials (including science computer software), and learning theories in science education. Co-requisite: ED 436.

ED 470            10 credits

#### Student Teaching

Classroom instruction of early childhood, middle school, secondary, and/or special education students during a fourteen-week period. Prerequisite: Completion of all other coursework and Praxis Tests. Co-requisite: 472.

ED 472            2 credits

#### Student Teaching Seminar

Provides guidance in clinical experiences as well as review of current educational research and issues related to professional development. Co-requisite: ED 470.

**SPECIAL EDUCATION COURSE DESCRIPTIONS**

**SPE 100**                    3 credits

**Overview of Human Exceptionalities**

Designed for prospective classroom teachers, this course surveys the process and provision of special education services for students with special needs. The causes and characteristics of individuals with mental retardation, learning disabilities, emotional and behavior disorders, autism, and sensory impairment, and the impact of disabilities on families are addressed. This course fulfills the human diversity graduation requirement.

**SPE 315**                    3 credits

**Teaching Reading/Language Arts to Students with Disabilities**

This course addresses the causes, diagnosis, and learning needs of exceptional and at-risk students in the elementary grades, K-4. Specifically, the course focuses on phonological awareness, phonics, and fluency, as well as a variety of instructional strategies for teaching reading/literacy to these students in inclusive and/or special education classroom settings. Prerequisite: ED 209.

**SPE 335**                    3 credits

**High Incidence Disabilities**

An overview of the historical and educational basis for development of programs for those students who have been identified as needing Learning Support is provided. Introduction to definitions, etiologies, classroom diagnostic procedures and remediation techniques will be addressed. Prerequisite: SPE 100.

**SPE 345**                    3 credits

**Low Incidence Disabilities**

The education of persons with mental retardation, autism and multiple disabilities is addressed as a collaborative effort of various individuals whose shared goal is meeting these children's unique learning needs across the life span. The use of adaptive equipment, assistive technology and issues of inclusion with these populations are explored in this course.

**SPE 410**                    3 credits

**Evaluation and Progress Monitoring with Special Needs Students**

An overview of the historical foundation and major contributions to the field of progress monitoring will be presented. Introduction to definitions, etiologies and theoretical approaches to curriculum-based management systems and forms of progress monitoring are given. Students will learn about various systems for data collection, charting, and reporting classroom performance as they drive planning and implementation of remediation and intervention programs.

SPE 425                      3 credits

### Legal and Professional Practices in Special Education

This course will focus on understanding the legal statutes and regulations regarding students with disabilities and the resulting impact on the delivery of services and educational programs. Skills in development and delivery of the Individualized Education Plan, from age 3-21, including effective communication and collaboration, will be addressed. Discussion of professional dispositions and ethical behaviors of effective special educators will be reviewed. Teacher candidates will become thoroughly familiar with the evaluation instrument used to assess teacher competence and professionalism in Pennsylvania public schools.

## ENGLISH

The primary focus of the English program is the study and appreciation of literature. A traditional liberal arts major, English has always offered its students opportunities for self-knowledge and growth as they explore the ideas of great writers of the past and present. However, the English major is also a practical choice. Because English courses encourage critical thinking, clear writing, and effective communication, students electing this major often choose careers in teaching, law, management, journalism, library science, government service and other fields. The English program also offers students the opportunity to prepare for graduate study.

**Major Courses Required:** complete at least 39 credits according to one of the following sequences:

**English Major Sequence:** ENG 202, 302 or 303, 406. Three credits of intensive study of a major writer or period; 6 credits each in British, American and world literature; and 9 credits of electives in literature and communication.

### English Secondary Education Certification

Secondary Education (7-12) Certification in English can be earned by Alvernia students who first complete their undergraduate degree in English and demonstrate content knowledge in this area on Pennsylvania's required Praxis exam in English. The following coursework is required and can be started as early as the undergraduate senior year, then completed as part of Alvernia University's post-baccalaureate program:

ED 203, ED 204, MED 505, MED 515, MED 545, MED 574, MED 615, MED 665, MED 670 and MED 672.

**English Minor**

Students majoring in other fields, particularly those in which communication skills are valuable assets, may wish to consider an English minor attained by completing 18 credits in English and/or communication with a maximum of 6 credits in communication. COM 100 and 101 cannot be applied toward the minor.

Seniors may not register for a 100 level English or communication course without the permission of the Department Chair.

**Theatre Minor**

Students interested in the theatre minor should see the communication section of this catalog.

**COURSE DESCRIPTIONS**

ENG 103            3 credits

**Introduction to Poetry**

Introduction to the basic forms of poetry, surveying primarily British and American poets of the last three centuries.

ENG 106            3 credits

**Short Story**

Introduction to the short story genre through a critical and analytical interpretation of selected stories from world literature.

ENG 202            3 credits

**Critical Approaches to Literature**

Study of world literature and other cultural artifacts using a variety of critical theories. This course meets the Writing Enhanced requirement.

ENG 203            3 credits

**Early American Poetry**

Study of early American poetry from Colonial period through 19th century. Poets include Taylor, Bryant, Poe, Emerson, Whitman, Melville, Dickinson, Crane and others.

ENG 204            3 credits

**Modern American Poetry**

Study of selected American poets of 20th Century, including Frost, Eliot, Stevens, Cummings, Wilbur, among others.

ENG 205            3 credits

Early British Literature

Study of early British literature before the eighteenth century, including Chaucer, Spenser, Shakespeare (poetry), Jonson, Donne and Milton.

ENG 206            3 credits

Modern British Poetry

Select British poets of Modern period.

ENG 207            3 credits

Contemporary Fiction and Drama

Study of selected short novels, stories and plays drawn from world literature of the last 30 years. This course fulfills the human diversity graduation requirement.

ENG 209            3 credits

Adolescent Literature

The study of literature for young adults, with a particular emphasis on how to teach such works in the middle and secondary schools. Course is restricted to students majoring in education or English or with permission of the instructor.

ENG 213            3 credits

Modern Drama

Study of the major trends in the 19th and 20th centuries with a concentration upon representative American, British, and continental dramatists.

ENG 216            3 credits

Women in Literature

Study of the varying images of women as portrayed in writing by and about women. Topics vary from semester to semester. May be repeated under different topics. This course fulfills the human diversity graduation requirement.

ENG 302            3 credits

Shakespeare: Histories and Comedies

Study of Shakespeare's development as a writer of historical dramas and comedies.

ENG 303            3 credits

Shakespeare: Tragedies and Romances

Study of Shakespeare's development as a writer of tragedies and romances.

ENG 304            3 credits

Satire and Sentiment

Exploring drama, fiction, and poetry by major eighteenth-century writers including Dryden, Sheridan, Defoe, Pope, Swift, and Dr. Johnson.

## 202

ENG 305            3 credits

### Early American Fiction

Analysis of trends in American prose literature with emphasis on significant novelists and short story writers from early 19th century to 1900.

ENG 306            3 credits

### Modern American Fiction

Study of significant American novelists and short story writers from 1920s to the present, including Fitzgerald, Hemingway, Steinbeck, Salinger, Heller and others.

ENG 307            3 credits

### The English Novel

Development of the novel as a genre, with emphasis on selected British novelists of the 18th and 19th centuries.

ENG 309            3 credits

### World Literature

Study of world literature in translation, excluding American and British works. This course fulfills the human diversity graduation requirement.

ENG 310            3 credits

### Modern Novel

Study of selected novels from world literature to illustrate techniques and developments in the genre in the modern period.

ENG 321            3 credits

### Ethics and Tragedy

Study of ethics in context of tragic literature. Focus on Aristotle's understanding of the ethical content of tragedy by examining connections between his works on moral psychology (Ethics, Rhetoric) and his analysis of tragedy in the Poetics. Readings also include plays of Sophocles, Euripides, Shakespeare, Racine and others.

ENG 355            3 credits

### Theatre History

A comprehensive study of the history of theatre from its origins through the Renaissance. Cross-listed with COM 355 and THR 355.

ENG 356            3 credits

### Theatre History II

A comprehensive study of the history of theatre from the neo-Classical era through today. Cross-listed with COM 356 and THR 356.

ENG 401            3 credits

Romantic and Victorian Writers

Study of major poets and prose writers of the British Romantic and Victorian periods.

ENG 404            3 credits

History of the English Language

Study of English language with emphasis on exploring its historical and structural development, including grammar and semantics. Students also study basic linguistics. This course includes the study of early English literature and counts as a literature elective for the core requirement.

ENG 406            3 credits

Research Seminar

Concentration on a research area selected by consultation with the academic advisor. Required of English majors.

## GENERAL SCIENCE

The General Science program aims to develop in the student insight into the intellectual and philosophical nature of science. This program helps the student to develop the ability to select, adopt, evaluate and use strategies and materials for the teaching of science and preparing for graduate study and professional programs.

### GENERAL SCIENCE

**Major:** 41 credits

BIO 103, 104; CHE 104, 105, 107, 110, 111; SCI 402; MAT 131, 209; PHY 103, 110, 111; 3 credits in research and independent study; CIS 114.

**Electives:** 10-14 credits

To be chosen in one area of concentration: biology, chemistry, or physics.

**Minor:** 19-23 credits

Complete two courses from each discipline (biology, chemistry, physics): BIO 103, 104, 109, 203; CHE 102, 103, 106; PHY 103, 106, 110, 111. Other courses from these disciplines may be substituted with the assistance of the student's academic advisor.

## HEALTHCARE SCIENCE

The purpose of the healthcare science program is to provide a rigorous curriculum, which will prepare graduates for meaningful roles and careers in our current healthcare environment. Consistent with the university's Franciscan values, students will become broadly educated, life-long learners who will engage with their communities. Utilizing a strong interdisciplinary design, this program encourages service and the promotion of healthy lifestyles for all persons of all abilities, income levels and social/cultural backgrounds. The Healthcare Science program creates advocates for individuals and communities that are underserved or under-informed on issues related to health and wellness, health systems policies and health management. Students with a healthcare science degree will graduate prepared to work in healthcare agencies, businesses, and various medical care settings.

### Academic Quality

The healthcare science program is an excellent mid-degree opportunity for transfers or new applicants with associate degrees as occupational therapy assistants, physical therapy assistants, medical imaging professionals, dental hygienists, and respiratory therapists. Students in the healthcare science program are concerned with the well-being of all people. Completing the healthcare science program requires a mastery of science, the ability to engage in critical appraisal, and the desire to serve the community. In addition to taking the required courses in healthcare science, students are able to study in an area of concentration such as business, communication, biology, etc.

### Career Success

The healthcare science program prepares students for work in healthcare agencies, businesses, and medical care settings as healthcare educators, healthcare advocates, or healthcare managers. Emphasis on health behavior theories through educational programming and experience with practical applications through volunteer service in the health field will provide students with a variety of educational tools and techniques to use in their professions. Healthcare program graduates could enter the healthcare field as health counselors or advocates, science and health writers, or policy analysts. In addition, graduates from the healthcare science program may find positions in government organizations, consumer groups, healthcare agencies, scientific research or consumer institutes.

## HEALTHCARE SCIENCE

**Major:** 30 credits

Required Healthcare Science Courses: HCS 200, 300, 310, 320, 330, 340, 400, 410, 420, 430. A grade of C or higher is required in all HCS courses.

**Related Requirements:** BIO 100 level with Lab (recommended):



BIO 107/117, 115/116, or 109), BIO 216, SOC 111, PSY 101, PSY 208

### **Doctor of Physical Therapy (DPT) Program:**

The healthcare science major can be followed as a 3+3 year curricular track leading to potential matriculation into the DPT Program in the senior year. That healthcare science curricular track and the 8 semester plan for the 3+ 3 year curricular track are specifically detailed and differ from the 8 semester plans for the 4 year undergraduate major in healthcare science. For further information about the accelerated 3+3 year Healthcare Science/DPT Program curricular track, visit <http://www.alvernia.edu/dpt> or contact the DPT Program Director, Dr. Christopher Wise, at [christopher.wise@alvernia.edu](mailto:christopher.wise@alvernia.edu).

### **COURSE DESCRIPTIONS**

HCS 200                    3 credits

Foundations of Healthcare Science

This course will identify current information in healthcare science and how it relates to different healthcare science professions. Various topics covered include medical ethics, legal obligations, the human body and wellness. Medical terminology is discussed as well as the importance of evidence-based research.

HCS 300                    3 credits

Writing for Healthcare Science

This required course emphasizes how to think critically and write effectively within the field of healthcare science. The approach focuses on the role of the healthcare science professional as an informed consumer of research and other evidence for the best practices within the healthcare industry. Evidence-based principles are viewed as a lens through which all information is critically analyzed. Students review and analyze the research of others with an emphasis on adequacy of design, appropriateness of the analysis, and generalization of the results. Quantitative and qualitative approaches to the study of healthcare presented and compared, and the course stresses the importance of critical evaluation. Professional writing is designed to introduce students to a set of advanced intellectual and rhetorical skills. Various forms of writing for healthcare science professionals are practiced including research reports, data-driven summaries, literature reviews, the development of educational brochures and materials and grant writing. This course meets the Writing Enhanced requirement.

HCS 310                    3 credits

Health & Wellness over the Life Span

This course focuses on the issues of health and wellness throughout the life span. Students learn various challenges concerning health and wellness including sociological, psychological, and economic factors that can impact their overall health. Motivational strategies, techniques, and plans for designing

age-appropriate exercise and fitness programs will be discussed and implemented. Current research in health and wellness programs will be studied and evaluated for effectiveness.

HCS 320            3 credits

Healthcare Science and Cultural Competency

This course focuses on the healthcare beliefs in a variety of cultures that interact with the healthcare system in the United States. The myriad of factors presented by diverse individuals and communities will be examined including: geographical, societal, economic, political and spiritual factors. Cultural competency for the healthcare science professional will be defined, modeled and practiced. This course fulfills the human diversity graduation requirement.

HCS 330            3 credits

Healthcare Literacy and Advocacy

This course will focus on the value of health literacy as an ideal for our country. Students will discuss the present barriers to that ideal and propose strategies for overcoming them. The requirements for health literacy for patients, providers, communities and society will be explored and strategies propose to contribute to health literacy at each level. Current national, state and local initiatives to address health literacy will be described and explored. The ethical principles of healthcare will be used as course themes to establish this need for literacy, advocacy for individuals and communities and healthcare reform.

HCS 340            3 credits

Healthcare Science Management

This course examines the organizational principles, practices, and pertinent management of health service organizations. Topics covered include quality improvement, risk management, strategic planning, financial planning and control, medical terminology, and medical ethics. Managerial implications of emerging issues in healthcare area also discussed.

HCS 400            3 credits

Healthcare Systems and Policy

This course introduces students to the U.S. health services system, describing healthcare institutions and the variant strengths and challenges of those systems, providers, payment practices, and significant health legislation. It examines current trends and perspectives against a historical background. This course focuses on healthcare delivery systems, including practice models and multi-level methods of intervention for effective service in healthcare, including health promotion, disease prevention, assessment, treatment, rehabilitation, continuing care, and discharge planning. Examples of topics covered include the use of current ICD system in assessment, screening and intervention including workplace health promotion and community crisis intervention. The impact of differences in ability, age, class, color, culture, ethnicity, family structure,

gender (including gender identity and gender expression) marital status, national origin, race, religion or spirituality, sex, and sexual orientation will be examined, as these relate to various health practices, policies and services. This course will help the student analyze the various components of American healthcare policy, including political and economic policy, as well as the process of policy formulation. Current medical legal and ethical questions are examined.

HCS 410            3 credits

#### Community Health Organization and Administration

This course explores the healthcare system and its evolution in the United States. Provides a review of health related study of the US healthcare system and its structure, finance, governance, personnel, and cultural values. Economic, political, and social forces are observed.

HCS 420            3 credits

#### Current Issues in Healthcare Science

This course focuses on the current issues in healthcare science/healthcare related to society. The focus on wellness and healthcare at the individual, community and global perspective will be explored. Investigation of emerging trends, practices and procedures including current research and implications will be discussed in the healthcare science/healthcare fields will be explored.

HCS 430            3 credits

#### Healthcare Science Capstone

The purpose of this course is to guide and facilitate the final development of the professional attitudes, practices and skills necessary for effective leadership within the healthcare sciences, with an emphasis on the roles and functions of those in leadership positions. Competencies and roles covered in the course include those related to motivation, accountability, organizational awareness, conflict resolution, negotiation, critical thinking and analysis, innovation, professionalism, change management, collaboration, influence, and communication. The overall outcome of this course is to develop and present a capstone project in the area of healthcare science, in alignment with the student's professional goals and aspirations. Senior status healthcare science major only.

## HISTORY

History is the story told of our past. It informs us of who we were, who we are, and from where we came. It is a foundation of the liberal arts and is essential to understand not only ourselves, but also the world around us. History hones the tools all students need to move upward in their professions — cultural literacy, reading, writing and research skills. History majors can plan, design, and think critically. They are ready for numerous professional paths, including teaching,

the law, and government service. The Department of the Humanities, in conjunction with education, supervises student preparations for Pennsylvania teacher certification.

## HISTORY

**Major:** 36 credits

HIS 110, 112, 303, 426, 493; 6 credits of American: HIS 300, 308, 322, 334, 344, 352, 364; 6 credits from European sequence: HIS 307, 319, 323, 337, 349, 353; 9 additional elective history credits at the 200 level or higher.

**Minor:** 18 credits

The minor in history is designed to give students a chance to develop their talent and interest in historical study within a flexible schedule of courses. Students may select any 6 3-credit HIS courses to earn this minor.

## COURSE DESCRIPTIONS

HIS 110                    3 credits

World Civilizations

An introduction to some of the major civilizations of the past 4000 years of human history, including ancient and modern civilizations in China, India, the Middle East, Africa, Europe, and the Americas. Particular attention will be paid to the sources and documents of these peoples, as well as their cultural, social, and economic interactions. This course fulfills the human diversity requirement.

HIS 112                    3 credits

The Study of American History

Introduces students to the chronology of American history, a broad selection of key documents, appropriate secondary reading materials, and descriptions of selected key events in the evolution of American history.

HIS 121                    3 credits

The Study of European History

Introduces students to chronology of European history, a broad selection of key documents, appropriate secondary reading materials, and descriptions of selected key events in the evolution of European history.

HIS 230                    3 credits

Women in History

Focused study of women in history through analyses of women's roles or comparative studies between cultures or biography. This course fulfills the human diversity graduation requirement.

HIS 240            3 credits

Topics in Global History

The study of non-Western culture and history. Potential topics include: East Asian, Middle Eastern, Latin American, and African histories. This course fulfills the human diversity graduation requirement. Course may be repeated for credit with different topics.

HIS 245            3 credits

Topics in Native American History

Study of the different aspects of the past of the indigenous peoples of the Americas. Emphasis is placed on introducing students to the very different cultures which have occupied the American continents for tens of thousands of years and which continue to influence Euro-American cultures to an extraordinary degree. This course fulfills the human diversity graduation requirement.

HIS 250            3 credits

Interdisciplinary History

Introduction to the historical aspects of a particular discipline such as business, economics, social work or criminal justice.

HIS 255            3 credits

Historical Biography

The study of a prominent individual or individuals in order to understand not just their lives, but the issues and contexts with which they had to deal. The course also seeks to understand the challenges which all people, not just historians, face in reconstructing past events and evaluating them.

Some possible lives to study include: Adolf Hitler, Joseph Stalin, Mahatma Gandhi, Martin Luther King, Florence Nightingale, or Queen Elizabeth I.

HIS 260            3 credits

Pennsylvania and Local History

Traces and coordinates Pennsylvania and local history by following the key events of state and local histories; the goal of the course is to familiarize the student with both the historical nature of their local environment and provide insights into that history.

HIS 281            3 credits

Topics in Military History

The study of war and military history. The course looks at the battles and fighting and investigates the underlying economic, social, and cultural factors that have driven and influenced war over the centuries. Topics may vary from semester to semester. May be repeated under different topics.

## 210

HIS 300            3 credits

### Colonial America

Traces Anglo-Spanish and Anglo-French struggles for control of North America, the transplanting of European peoples and institutions to the original 13 British colonies, and development of those 13 colonies into semi-independent states before 1763. Prerequisite: HIS 112 or junior-level standing.

HIS 303            3 credits

### 20<sup>th</sup> Century World History

This course covers world history in the 20<sup>th</sup> century, focusing on major changes from the end of World War I to the present.

HIS 307            3 credits

### Greco-Roman Civilization

Covers the growth of the classical civilizations of the West, from the Minoan/Mycenaean civilization through the rise of Greece, the transformation of Greek civilization into the Hellenistic civilizations, and the triumph and decline of Rome. Prerequisite: HIS 121 or junior-level standing.

HIS 308            3 credits

### American Revolution and Constitution

Examines late colonial era including causes of the Revolutionary War, emergence of the United States under the Articles of Confederation, and special emphasis on origins and ratification of the Constitution. Prerequisite: HIS 112 or junior-level standing.

HIS 319            3 credits

### Late Antiquity and Early Medieval

Traces fusion of classical civilization, Christianity and German tribes into the first Europe. Emphasizes understanding the transition from the Ancient World to the birth of European civilization of the High Middle Ages. Prerequisite: HIS 121 or junior-level standing.

HIS 322            3 credits

### Early National & Jeffersonian America

Follows development of American society and culture as Americans sought to define precisely what their revolution had won for them and what an “American” was. Traces Federalist, and Jeffersonian periods and the emergence of the Jacksonian age. Prerequisites: HIS 112 or junior-level standing.

HIS 323            3 credits

### The High and Late Middle Ages

The High Middle Ages was the burst of development, which formed Western European civilization. It was followed by a partial collapse known as the Late Middle Ages, which served as the transition to the Renaissance and to modern

Europe. Traces this coalescing of Western European civilization and the period of collapse. Prerequisite: HIS 121 or junior-level standing.

HIS 334            3 credits

Jacksonian and Ante-Bellum America

Traces development of America from the Battle of New Orleans to the sectional breakdown of the early 1850s. Covers late Jeffersonians, age of Jackson, era of Manifest Destiny, Mexican War, and the growth of the North/South conflict after the Mexican War. Also examines the old South. Prerequisite: HIS 112 or junior-level standing.

HIS 337            3 credits

Early Modern Europe

From the Renaissance to the Elizabethan Age to the court of Louis XIV, this course follows fragmenting of the medieval world and emergence, through upheaval, of new religious, political and intellectual styles. Prerequisite: HIS 121 or junior-level standing.

HIS 344            3 credits

The Era of the Civil War

Covers the development of the sectional crisis from the Compromise of 1850, through the crisis of the 1850s, to the Civil War itself, and to the passing of Reconstruction. Course ends with the disputed election of Hayes and the North's abandonment of Reconstruction. Prerequisite: HIS 112 or junior-level standing.

HIS 349            3 credits

The Age of Revolutions (1610-1815)

Traces political, intellectual, and socio-economic upheavals associated with such figures as Galileo, Newton, Cromwell, Louis XIV, Locke, Montesquieu, Washington, Franklin, Jefferson, Adam Smith, Voltaire, Robespierre and Napoleon. Concentrates on interplay of individuals and trends. Prerequisite: HIS 121 or junior-level standing.

HIS 352            3 credits

America's Industrial Revolution and the Age of Reform

Examines America's Industrial Revolution, westward expansion, immigration, urbanization, and attempts to control rapid change through reform. Also covers America's growing involvement in world affairs through World War I and the Versailles Treaty. Prerequisite: HIS 112 or junior-level standing.

HIS 353            3 credits

The European Century (1763-1914)

Follows Western European civilization as it approached its apogee and spread across the world. Focuses on European civilization as it developed its mature

forms of political, intellectual, and socio-economic thought. Prerequisite: HIS 121 or junior-level standing.

HIS 364                    3 credits

America's Trial: The Depression through the Korean War  
Studies 24 years that covered Great Depression, New Deal, World War II, the Cold War, and the Korean War, and how these years affected American institutions. Examines upheavals of the "Jazz Age" and the 1920s. Prerequisite: HIS 112 or junior-level standing.

HIS 426                    3 credits

Research Seminar

Intensive study in research methodology followed by a major research paper on a topic approved by the department chairperson.

HIS 461                    3 credits

Social Studies Methods: Pennsylvania's Founding and the World

This course examines the historical and contextual development of Pennsylvania from 1683 to 1824. As a methodology course, focus is on types of research and methods of presentation within a classroom setting. Cross-listed with ED 461.

HIS 493                    3 credits

Contemporary Historiography

This course examines the processes by which history is written and created. In particular, it looks at the theories, ideas, and beliefs that underpin the study of history itself, using such thinkers as Foucault, Thucydides, Genovese, and Partha Chatterjee.

## HONORS

The Honors Program offers students the opportunity to challenge themselves through innovative and imaginative curricula. Students are encouraged to excel academically, to prepare for graduate and professional school, and to participate in leadership and service opportunities. The program provides co-curricular activities, service opportunities, and intellectual and social support, adding significant dimension to the student's academic program.

HNR 160                    3 credits

First Year Honors Seminar (FYHS)

Introduces students to intellectual inquiry, orients them to campus life (includes Honors Program), assists in development of academic and personal goals, and introduces preparation for graduate and professional school. Students learn to use various methods of inquiry to explore questions, collect evidence, critically



evaluate and synthesize information, construct reasoned arguments, and communicate results to others both orally and in writing. Builds on classroom learning through related co-curricular activities and field experiences. Generates collaboration and builds intellectual community among students and faculty. Course is team taught by faculty in diverse areas; students lead discussion and complete individual and group projects. Satisfies FYS 101 requirement.

HNR 260/360 3/3 credits

Interdisciplinary Honors Colloquia

Honors Colloquia build on the foundation established in the First Year Honors Seminar. An interdisciplinary approach is taken, emphasizing integration of methods from both the arts and the sciences to approach complex questions. The course topic is used as a context within which methods of investigation, synthesis and expression will be further developed. Topics are based on expertise of faculty members in diverse areas, and on student interest. In the course students lead discussion, complete individual and group projects, and participate in co-curricular activities and field trips. Recent colloquia examples: Titanic: Myth and Reality; Good and Evil in Fact and Fiction; and Leaders: Born, Made & Portrayed.

HNR 460 6 credits\*

Honors Thesis

Working closely with a faculty mentor, students complete a thesis, which involves identifying and solving a scholarly problem or developing a creative work. Project must be interdisciplinary, and students must successfully defend a proposal and final project to the Honors Advisory Board and present to the college community. \*May be taken in one semester for 6 credits or two semesters for 3 credits each.

## LIBERAL STUDIES

### **Rationale**

The liberal studies major is a self-designed major available for students to develop a program of study that is not currently offered at the university. Whether the student is seeking an opportunity to broaden intellectual and cultural awareness, or whether the student is preparing for specific graduate pursuits, liberal studies will provide both a solid foundation and a program tailored to the student's individual goals.

### **Purpose**

The purpose of the liberal studies major is to provide students the flexibility to explore a wide range of subjects while tailoring their studies to career or

educational goals. This individualized program can be more meaningful and practical to the individual with specific professional or intellectual interests.

### **Restrictions**

Students who have not yet earned 75 credits should discuss their planned course of study with the relevant department chairs. Students then submit a proposal, including a rationale for pursuing the liberal studies major and a program of studies with the courses that constitute this major. Once the proposal has been approved by the chairs of the two relevant academic departments\* and by the Dean of Arts & Sciences, the Registrar will be informed of the student's intent to pursue a liberal studies major and will keep the signed and approved proposal on file.

## **LIBERAL STUDIES**

### **Major Requirements:**

**Bachelor's Degree:** 37 credits

1. Students should declare their intention to pursue the liberal studies major and submit a rationale for their program of studies and the courses that will constitute it before they earn 75 credits.
2. This proposal must be approved by the **two** department chairs\* who have agreed to sponsor the major. An advisor will be appointed from one of the departments.
3. A minimum of 15 credits must be taken in each of the two departments or programs. A minimum of 18 credits must be taken at the 300/400 level.
4. Students must complete a one credit capstone course, COL 400, supervised by their advisor.
5. All major requirements are in addition to those required by the university core. Area II courses may not be fulfilled by courses from either of the two selected disciplines.

*\*If the two areas of study are within the same department, then the department chair and a faculty member who teaches in one of the specific areas are asked to approve the proposal.*

## **MASTER OF ARTS IN LEADERSHIP FOR SUSTAINABLE COMMUNITIES**

The Master of Arts in Leadership for Sustainable Communities is an interdisciplinary program founded in the liberal arts tradition and designed for

leadership in sustainable community development. The MALS degree program prepares professionals who will excel in positions of leadership in public and private settings. For the purposes of this program, leadership for sustainability is defined in cultural, economic and environmental terms. The MALS program helps students become agents of social change through critical discussion and analysis of community issues and the creation of graduate level service and/or research projects to mitigate community challenges.

## MATHEMATICS

The mathematics program is designed to provide students with sufficient background into mathematical theory and practice so they may pursue graduate work, research, teaching in the secondary schools and various types of work in industry.

### MATHEMATICS

**Major:** 53-57 credits

**Core:** 27-30 credits

MAT 230, 231, 307, 332, 401, 415, either SCI 480 or SCI 406/407, **MAT 131** recommended.

Related area: 14 credits

CIS 115, 152; PHY 200, 201.

Electives: **4 courses** from: MAT 204, 209, 210, 240, 304, 308, 403.

### Mathematics Secondary Education Certification

Secondary Education (7-12) Certification in Mathematics can be earned by Alvernia students who first complete their undergraduate degree in Mathematics and demonstrate content knowledge in this area on Pennsylvania's required Praxis exam in Mathematics. The following coursework is required and can be started as early as the undergraduate senior year, then completed as part of Alvernia University's post-baccalaureate program:

ED 203, ED 204, MED 505, MED 515, MED 545, MED 574, MED 615, MED 665, MED 670 and MED 672.

**Minor: 17-18 credits**

MATH 209, 230, 307. Two from 204, 231, 240, 304, 308.

## COURSE DESCRIPTIONS

MAT 100            3 credits

Elementary Algebra

Designed for students who need to develop their algebraic skills. Topics include review of arithmetic, real number concepts, linear and quadratic equations and inequalities. It carries transcript credit, but does not count in the credits applied toward graduation.

MAT 101            3 credits

Survey of Mathematics

Survey of modern concepts of mathematics. Topics include set theory, logic, mathematical system, systems of numeration, counting methods, probability and statistics. Fulfills the general education requirement for non-math or non-science students. Prerequisite: satisfactory score on Mathematics Placement Test.

MAT 102            3 credits

Algebra II

This course is designed to prepare science or mathematics major for pre-calculus. Topics include algebra of polynomials, roots, radicals and exponents, relations and functions and their graphs, systems of equations and logarithms. Prerequisite: MAT 100 or satisfactory score on Mathematics Placement Test.

MAT 105            3 credits

Mathematics for Teachers I

An introduction to the fundamentals of teaching mathematics in the elementary school. Topics include: sets, functions, logic, numeration systems, number theory, properties of number systems, introduction to statistics. Open only to education students or by permission of instructor. Students may not take both MAT 105 and MAT 101 for credit. Prerequisite: satisfactory score on the Mathematics Placement Test.

MAT 106            3 credits

Mathematics for Teachers II

An introduction to the fundamentals of teaching mathematics in the elementary school. Topics include: probability, statistics, geometry in 2 and 3 dimensions, measurement concepts, problem solving strategies, technology and mathematics. Open only to EDU students or permission of instructor.

MAT 110            3 credits

Business Mathematics

This course is designed to provide a secure foundation in the fundamentals of business mathematics. Topics include: interest calculations, depreciation, statistical data and graphs, algebra of polynomials, roots, radicals and exponents, relations and functions, exponential functions and their graphs. Prerequisite: Satisfactory score on the Mathematics Placement Test.

MAT 131            3 credits

Precalculus Mathematics

This course is an introduction to relations and functions including polynomial, rational, trigonometric, exponential and logarithmic functions and their graphs.

Prerequisite: two years of high school algebra and satisfactory score on the Mathematics Placement Test.

MAT 204            3 credits

Introduction to Mathematical Logic

This course is an introduction to basic properties and operation of sets, functions and relations. A discussion of set cardinality, ordered sets, ordering theorems, set paradoxes, algebra of proposition and Boolean algebra. Number theory topics include: factorization, divisibility theory, congruencies, and Diophantine equations.

MAT 205            3 credits

Mathematics for Teacher III

A survey of concepts required of middle school teachers. Topics include: Algebra, exponential and logarithmic functions, trigonometry, and discrete mathematics. Prerequisite: MAT 106.

MAT 208            3 credits

Introductory Statistics

This course in applications of statistics and probability is designed for such areas as sociology, business, economics, medicine and psychology. Topics include descriptive statistics, data organization and graphical methods, laws of probability, rules review of probability, linear correlation and regression, binomial and normal distributions, sampling and statistical inference. Varied computer applications, using the statistical software package SPSS, are required. Not open to math or science majors. Students earning credit for this course cannot earn credit for MAT 209. Prerequisite: satisfactory score on the Mathematics Placement Test.

MAT 209            3 credits

Probability and Statistics

This course covers theoretical principles and methods of probability and statistical analysis useful for natural science and education majors. Includes organization and analysis of data, descriptive statistics, laws of probability, binomial and normal distribution, random sampling, statistical inference, estimation and tests of hypotheses for large samples. Computer applications, using statistical software package SPSS, are required. Students earning credit for this course cannot earn credit for MAT 208. Prerequisite: satisfactory score on the Math Placement Test.

MAT 210            3 credits

Inferential Statistics

A study of correlation and regression from applied and theoretical points of view, bivariate normal distribution and small sample theory. Student's t-, F, and chi square distributions, analysis of enumerative data, analysis of variance and nonparametric methods. Varied computer applications, using the statistical software package SPSS, are required. Prerequisite: MAT 209.

MAT 220            1 credit

Math/Statistics Computer Lab

This lab will offer hands-on instruction in the use of computers and software to calculate, graphically display and analyze data of mathematical, statistical or scientific interest. The use of computer plotting software to visually represent mathematical equations with one or more variable functions will be emphasized through the appropriate input of computationally logical mathematical formulas.

MAT 225            3 credits

Business Calculus

This course reviews relations and functions, exponential functions and graphs. An introduction to limits, continuity, basic differentiation and integration with emphasis on business applications. Prerequisite: MAT 110 or satisfactory score on the Mathematics Placement Test.

MAT 230            4 credits

Calculus I

This course is an introduction to limits, continuity, differentiation, integration and their applications. Prerequisite: MAT 131 or satisfactory score on the Mathematics Placement Test.

MAT 231            4 credits

Calculus II

This course includes applications and techniques of integration, derivatives and integrals of trigonometric, exponential and logarithmic functions. Techniques of integration. Prerequisite: MAT 230.

MAT 240            3 credits

Linear Algebra

This course introduces the theory of matrices with applications using systems of equations, discussion of determinants, transformations and properties of vector spaces. Prerequisite: MAT 231.

MAT 304            3 credits

Numerical Analysis

A study of numerical methods necessary in the computer sciences including methods for evaluating zeros of a function, solving systems of linear equations,

polynomial approximations, matrix computations, rounding errors and other error types. Prerequisite: CIS 151.

MAT 307            3 credits

#### Abstract Algebra

A study of group theory, permutations and cyclic groups, factor groups, rings, fields, integral domains, ideals, polynomial rings and vector spaces.

MAT 308            3 credits

#### Modern Geometry

A study of transformations in the Euclidean plane, affine spaces and their transformations, projectives and their groups and axiomatic plane geometry.

MAT 332            4 credits

#### Calculus III

A study of vectors in the plane, polar coordinates, infinite series, vectors in solid analytic geometry, functions of several variables, partial derivatives, multiple integrals and their applications. Prerequisite: MAT 231.

MAT 401            3 credits

#### Real Analysis

A study of some of the basic theorems of real analysis including sequences and series, vectors, multiple integrals, techniques of differential and integral calculus and implicit function theorems. Prerequisite: MAT 332.

MAT 403            3 credits

#### Complex Variables

This is an introduction to the theory of functions and complex variables, elementary transformations, complex differentiation and integration, Cauchy theory of integration and complex power series. Prerequisite: MAT 332.

MAT 415            3 credits

#### Mathematics Seminar

This is a program of individual reading, discussion and student presentation of oral and written papers on selected topics in mathematics. Topics include history of mathematics as well as other areas not discussed in any of the student's previous mathematics courses. Prerequisite: junior or senior standing.

## MEDICAL IMAGING

The medical imaging (MI) program leading to an Associate of Science degree is a cooperative degree program between The Reading Hospital School of Health Sciences (RH-SHS) and Alvernia University. In addition to the Associate in Science degree, graduates will receive a Certificate in Radiologic Technology from RH-SHS. The MI program meets the 2011 Radiology Curriculum Standards set forth by the American Society of Radiology Technologists and is 2 ½ calendar years in length. In addition, it is fully accredited by the Joint Review Committee on Education in Radiology Technology (JRCERT) and approved by the Pennsylvania Department of Education. Graduates of the MI program are eligible to take the national examination administered by the American Registry of Radiology Technologists (ARRT) to become Registered Technologists.

The medical imaging program is committed to helping students view themselves as integral members of a healthcare team whose function is to collectively provide the highest quality patient care achievable. The academic and clinical curricula of the medical imaging program are purposefully designed to educate entry-level practitioners who are well prepared to provide compassionate, ethical and evidence-based patient care when delivering medical imaging services. Students learn to meet the total needs of the patient, with emphasis placed upon the core values of the medical imaging program (compassion, integrity, precision, accountability and respect) as well as the Franciscan tradition at Alvernia University (service, humility, peacemaking, contemplation and collegiality).

### **Medical Imaging Student Learning Outcomes:**

1. Synthesize knowledge and skills essential to the successful practice of diagnostic medical imaging.
2. Practice competently as an entry-level Radiologic Technologist.
3. Communicate effectively with individuals, families and communities.
4. Provide diagnostic-imaging services ethically and compassionately.
5. Utilize the problem solving process effectively.
6. Embrace the need for ongoing professional growth and development.

### **Admission Requirements**

The MI program student admission is the responsibility and at the discretion of the Reading Hospital School of Health Sciences. Admission standards meet and/or exceed Alvernia University's admission standards. Admission to the MI program is competitive and the selection of students will be based on personal composition, academic ability, references, interview performance, aptitude tests, writing samples, and previous healthcare experience. Refer to the RH-SHS Admission Office for details.



## MEDICAL IMAGING PROGRAM LEADING TO AN ASSOCIATE OF SCIENCE DEGREE

<b>Minimum Credits:</b>	<b>78 credits</b>
<b>Total MI Credits:</b>	<b>49 credits</b>
<b>General Education/Core:</b>	<b>25 credits</b>
<b>Related Requirement:</b>	<b>4 credits</b>

**Required MI Courses:** MI 110, 115, 120, 015, 130, 025, 235, 035, 240, 045, 260, 055, 275, 065

**Related Requirements:** The following are required as part of or in addition to the General Education/Core: BIO 107, 117, 108, 118, COM 101, MAT 102, PHI 105, THE 210, SOC 306. Two liberal arts electives: 3 credits COM (in addition to COM 101) and 3 credits from art, music, theatre, or literature.

### COURSE DESCRIPTIONS

MI 110                    1 credit

Introduction to Medical Imaging

This course provides a broad, general introduction to the foundations in the radiography practitioner's role in the healthcare delivery system. Principles, practices and policies of the healthcare organization(s) will be examined, in addition to the professional responsibilities of the radiographer. Students will be oriented to the administrative structure of the Radiology Department and to professional organizations significant to radiology. Students will be oriented to the mission of Alvernia University, The Reading Hospital School of Health Sciences and the medical imaging program.

MI 115                    3 credits

Patient Care and Pharmacology for Medical Imaging Professionals

This course addresses the basic concepts of patient care and underscores the physical and emotional needs of the patient and family. Routine and emergency patient care procedures will be described, as well as infection control procedures utilizing standard precautions. The role of the radiographer in patient education will be identified. Prerequisites: BIO 107, 117, COM 101, MAT 102, FYS 101/MI 110.

MI 120                    2 credits

Radiation Protection & Medical Terminology

This introductory course provides theory and application to the elements of medical terminology. A word-building system will be introduced and abbreviations and symbols will be discussed. Also introduced will be an orientation to the understanding of radiographic orders and interpretation of diagnostic reports. Related terminology is addressed. This course will introduce

an overview of the principles of radiation protection, including the responsibilities of the radiographer for patients, personnel and the public. Devices used for protection will be presented. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and healthcare organizations are incorporated. Prerequisites: BIO 107, 117, COM 101, MAT 102, FYS 101/MI 110.

MI 121                    1 credit

#### Clinical Seminar I Clinical Orientation

Clinical Seminar I is designed to support the foundation necessary to perform standard radiographic procedures. The fundamental skills necessary to adapt studies to specific patient needs will be introduced as well as concepts related to pathology with emphasis on radiographic appearance. Laboratory and clinical experience will be used in conjunction with seminars to facilitate mastery of skills necessary for the beginning medical imaging student. (RSHS MI 015) Prerequisites: BIO 107, 117, COM 101, MAT 102, FYS 101/MI 110.

MI 130                    3 credits

#### Imaging Principles and Equipment

This course establishes the relationship between radiation production and characteristics, radiographic equipment, and factors that govern the image production process. The basic knowledge of atomic structure and terminology, nature and characteristics of radiation, x-ray production, the fundamentals of photon interactions with matter, and the design and function of the radiographic equipment are explored. The concepts of radiographic density, contrast, latitude, detail and distortion are analyzed with respect to how they affect the image production process. Ideal technique formulation and selection, troubleshooting and error correction is examined. (Mathematics involved) Prerequisites: MI 115, 120, 121, MAT 102.

MI 131                    5 credits

#### Clinical Seminar II Chest, Distal Extremities

Clinical Seminar II is designed to support the foundation necessary to perform standard radiographic procedures. Chest radiography and distal portions of the appendicular skeleton will be included. The skills necessary to adapt these studies to specific patient needs will also be introduced. Demonstration of optimal diagnostic examinations and radiographic image evaluation will be included; pathological effects and recommendation for improvement of image quality will be discussed. Laboratory and clinical experience will be used in conjunction with seminars to facilitate mastery of skills necessary for the beginning medical imaging student. (RSHS MI 025) Prerequisites: BIO 108, 118, MI 115, 120, 121.

MI 235            4 credits

#### Medical Image Acquisition & PACS

This course is designed to impart an understanding of the components, principles, and operation of imaging systems found in diagnostic radiology. Factors that impact image, image acquisition, display, archiving and retrieval are discussed. Guidelines for selecting exposure factors and evaluating images within an imaging system assist students to bridge between film-based and digital imaging systems. Principles of quality assurance and maintenance are presented. Prerequisites: MI 130, 131.

MI 236            5 credits

Clinical Seminar III; Proximal Extremities, Shoulder Girdle, Mobile & Surgical  
Clinical Seminar III is designed to support the foundation necessary to perform standard radiographic procedures. Proximal Extremity, Shoulder Girdle, Mobile/Surgical Radiography and Trauma Radiography. The skills necessary to adapt these studies to specific patient needs will also be introduced.

Demonstration of optimal diagnostic examinations and radiographic image evaluation will be included; pathological effects and recommendation for improvement of image quality will be discussed. Laboratory and clinical experience will be used in conjunction with seminars to facilitate mastery of skills necessary for the beginning medical imaging student. (RSHS MI 035)  
Prerequisites: MI 130, 131, THE 210.

MI 240            2 credits

#### Radiation Biology

This course is designed to provide an overview of the principles of the interaction of radiation with living systems. Radiation effects on molecules, cells, tissues, and the body as a whole are presented. Factors affecting biological response are presented, including acute and chronic effects of radiation.  
Prerequisites: MI 235, 236.

MI 241            5 credits

Clinical Seminar IV Bony Thorax, Pelvic Girdle and Vertebral Column  
Clinical Seminar IV is designed to support the foundation necessary to perform standard radiographic procedures. Instruction of radiography of the bony thorax, pelvic girdle and vertebral column will be included. The skills necessary to adapt these studies to specific patient needs will also be introduced.

Demonstration of optimal diagnostic examinations and radiographic image evaluation will be included; pathological effects and recommendation for improvement of image quality will be discussed. Laboratory and clinical experience will be used in conjunction with seminars to facilitate mastery of skills necessary for entry level medical imaging professionals. (RSHS MI 045)  
Prerequisites: MI 235, 236.

## MI 260                    4 credits

## Introduction to Computed Tomography and Cross Sectional Anatomy

This course is provided to further continue the study of the gross anatomy of the entire body through cross sectional imaging. Detailed study of gross anatomical structures will be conducted systematically for location, relationship to other structures, and function. Content will also provide entry-level radiography students with principles related to computed tomography (CT) imaging. Basic principles of linear tomography will be studied in relation to the patient care setting. Prerequisites: MI 240, 241.

## MI 261                    8 credits

## Clinical Seminar V Abdomen, Fluoroscopy, Cranium,

Clinical Seminar V is designed to support the foundation necessary to perform standard radiographic procedures. Instruction of abdominal radiography, fluoroscopy studies, and imaging procedures associated with the cranium will be included. The skills necessary to adapt these studies to specific patient needs will also be introduced. Demonstration of optimal diagnostic examinations and radiographic image evaluation will be included; pathological effects and recommendation for improvement of image quality will be discussed. Laboratory and clinical experience will be used in conjunction with seminars to facilitate mastery of skills necessary for entry level medical imaging professionals. (RSHS MI 055) Prerequisites: MI 240, 241, SOC 306.

## MI 275                    1 credit

## Achieving and Advancing Professional Standing

This course provides students with necessary information as they prepare to take the national credentialing examination administered by the American Registry of Radiologic Technologists (ARRT). The application process utilized by the ARRT is explained and continuing education requirements for ongoing registry maintenance are discussed. Students prepare for the credentialing examination through participation in standardized exams, investigate a variety of professional growth opportunities and design a career pathway. Prerequisites: MI 260, 261.

## MI 276                    5 credits

## Clinical Seminar VI Special Studies

Clinical Seminar VI is designed to support the foundation necessary to perform specialty radiographic procedures. Instruction of specialized radiographic projections and protocols will be included. The skills necessary to adapt these studies to specific patient needs will also be introduced. Demonstration of optimal diagnostic examinations and radiographic image evaluation will be included; pathological effects and recommendation for improvement of image quality will be discussed. Laboratory and clinical experience will be used in conjunction with seminars to facilitate mastery of skills necessary for entry level medical imaging professionals. (RSHS MI 065) Prerequisites: MI 260, 261.

## MUSIC

Music offerings seek to serve students by presenting the basics of music and the relationship of music to other areas of human endeavor. Skills courses seek to develop the student as a performer to foster self-expression and enjoyment of the art of music. Performance groups include chorus, band and ensembles. A minor is available.

### **Minor:** 18 credits

A student pursuing another discipline may choose electives to form a music minor. Credit distribution is as follows: MUS 135, 235, 051 (repeated), 010 or 020 (repeated); six credits in other music courses.

### **COURSE DESCRIPTIONS**

MUS 010            1 credit

Chorus

Open to all students. Meets two hours a week. Practical experiences in part-singing; advancing choral literature; public performances. May be repeated.

MUS 020            1 credit

Instrumental Ensemble

Open to all students by audition. Meets two hours a week. Practical experiences in attaining blend, maintaining precision, furthering musicianship. May be repeated.

MUS 051            1 credit

Private Instruction

Private lessons in piano, voice, organ or any other instrument for which an instructor can be made available on request. One half-hour lesson per week per credit. Additional fee required. May be repeated for credit.

MUS 121            3 credits

Introduction to Music

Presentation of basic elements of music, important forms, types and representative styles and works. Promotes more intelligent listening to music, especially classical music.

MUS 123            3 credits

American Popular Music

Presents basic elements of music with special emphasis on growth and development of American popular music, rock and jazz. Listening lessons, independent projects and class discussions that encourage active participation and develop an appreciation for our rich heritage of music and the arts.

MUS 130            3 credits

Sing Broadway

Introduces the student to basic vocal technique, song preparation and performance. Song literature will emphasize, but not be limited to, Broadway Musical Theatre. The class will include live performance, lecture, directed listening, demonstration, discussion, and audio-visual materials. Observations, interactions and discussions are encouraged. Practice outside of class is expected.

MUS 131            3 credits

Music Fundamentals via Piano

Elements of notation, scales, intervals, triads, functional keyboard, elementary sight singing, and ear training.

MUS 132            3 credits

Music Fundamentals via Guitar

Elements of music notation, scales, chords and transposition with special emphasis on how these apply to guitar. Good playing skills stressed. Instrument required. (Limited number of instruments available for rental.)

MUS 135            3 credits

Music Theory

Correlates harmony, keyboard experience, ear training, sight singing and analysis. Major and minor scales, intervals, triads, inversions. Musical background not necessary.

MUS 220            3 credits

Music and Health

Basic music course in the theories and techniques of music as an agent of wellness. Explores music therapy, recent research, and healing practices of non-Western cultures as they relate to music. Especially recommended for students planning a career in healthcare or human services. No prerequisites, no prior musical experience or performance required.

MUS 221            3 credits

American Music

In-depth study of origins of music in America from early settlements through the present day. Emphasis on contributing cultural factors as well as study of style and form. Folk, dance, religious, stage, and art music is included.

MUS 222            3 credits

Multicultural Music

Study of musical diversity of the world. Emphasis on interrelationship of music and cultural traditions. Topics: music of Africa, Europe, and the Americas, including their influence on American music. Lecture, discussions, video and

extensive use of recorded material. This course fulfills the human diversity graduation requirement.

MUS 224            3 credits

#### Broadway Musicals

Survey of musical theatrical productions with emphasis on the development of the American musical theatre.

MUS 235            3 credits

#### Harmony

Part writing of figured bass exercises tonic triads and seventh chords; some keyboard harmony. Prerequisite: MUS 135 or instructor permission.

MUS 322            3 credits

#### World Music

Study of musical diversity of the world. Emphasis on interrelationship of music and culture. Topics: music of India, Middle East, Indonesia, China, Japan, Southeast Asia, Pacific Rim and Pacific Islands, and Australia, including their influence on American music and vice-versa. Lecture, discussion, group project, videos, and extensive use of audio material. Fulfills the human diversity requirement.

MUS 331            3 credits

#### Women in the Arts

A culture-based survey of the contributions by women of the Western world to the fields of music, visual arts, dance, and theater. Significant attention also to women in African-based arts, including African-American women. Previous artistic experience is helpful. No prerequisite. This course fulfills the human diversity graduation requirement.

MUS 333            3 credits

#### Music History

In-depth exploration of origins of Western musical practice. Covers music from Medieval to Modern. Emphasis is on evolution of style and form. Learn through lecture, score analysis, reading assignments, oral reports and directed listening.

## NURSING

The purpose of the Bachelor of Science in Nursing program is to offer a high quality professional nursing education in a Christian-oriented environment. The BSN graduate functions as a generalist practitioner in a variety of healthcare environments. Alvernia's BSN graduate is prepared to deliver healthcare to persons of all ages, families and community groups with sensitivity to cultural and environmental factors.

The Alvernia University Bachelor of Science in Nursing program is fully approved by the Pennsylvania State Board of Nursing. The successful graduate is eligible to apply for RN Licensure by taking the National Council Licensure Examination (NCLEX-RN).

The BSN program is designed to prepare the students for professional practice, summarized by the following nine outcomes expected of our graduates. Upon graduation, the nursing student will be able to:

1. Demonstrate a solid base in liberal education – humanities, social sciences, and natural sciences – to inform generalist nursing practice.
2. Assume an ethical leadership role to improve quality and safety of clients' care within a variety of healthcare settings.
3. Integrate reliable evidence to inform practice and make clinical judgments.
4. Demonstrate skills in information technology and client care technologies to facilitate ethical and safe care.
5. Recognize local, state, national, and global trends in health policy and regulation and its effect on nursing practice.
6. Use professional communication and collaboration skills to deliver safe and evidence-based, client-centered care.
7. Use evidence-based disease prevention and health promotion practices across the life span.
8. Demonstrate the professional standards of moral, ethical, and legal conduct.
9. Synthesize core knowledge and skills for generalist nursing practice across the life span in a variety of healthcare settings.

Graduates of the BSN program are expected to perform according to the American Nurses Association (ANA) Standards of Practice, The Essentials of Baccalaureate Education for Professional Nursing Practice, The ANA Code of Ethics, and the Pennsylvania Nurse Practice Act.

The Alvernia University Bachelor of Science in Nursing program is accredited by the Commission on Collegiate Nursing Education (CCNE). Accreditation is an indication of public approbation, attesting to the quality of the educational



program and the continued commitment of the sponsoring institution to support the program. For further information about the accreditation of the BSN program, please contact the Commission on Collegiate Nursing Education at the following address: Commission on Collegiate Nursing Education: One Dupont Circle NW, Suite 530, Washington, D.C., 20036, 202-887-6791.

### **Admission Requirements**

Admission to the Alvernia University Bachelor of Science in Nursing program is determined on an individual basis at each entry level. The total number of students admitted to the program is based upon available facilities and faculty. Students are admitted throughout the calendar year until all spaces in the class are filled. All students admitted to the Pre-licensure Bachelor of Science in Nursing Program are designated as Pre-NUR until three of the four foundational science courses have been passed with a final course grade of “C” or better (see Progression Policies). Students may repeat no more than three total required science courses at Alvernia or any/all previous institutions they have attended. When a student meets the progression requirements to move to sophomore level nursing courses, their status is changed from Pre-NUR to NUR.

### **Admission Requirements for Freshman Level**

This level is for all first-time college students and for college students who have less than 29 credits of college level work or students who do not have prerequisite college level science courses.

- First-time college students must meet the general admission requirements of Alvernia University.
- First-time college students with less than 12 credits of college work must have a composite score from the critical reading and math sections on the SAT of 950 or greater and a high school grade point average of 3.0 or higher, with consideration given to college preparatory courses of study.
- Two letters of reference.

As required by the Pennsylvania State Board of Nursing, applicants shall have completed work equal to a standard high school course with a minimum of 16 units, including 4 units of English, 3 units of social studies, 2 units of mathematics (1 of which is algebra) and 2 units of science with a related laboratory or the equivalent.

### **Transfer Students at the Sophomore Level**

This level is for students who have completed at least 30 credits of college level work including the prescribed science courses for the freshman year. To be eligible for admission to the nursing program at the sophomore level applicants must:

- Meet the general admission requirements of Alvernia University

- Provide official transcripts of completed college work and courses in progress
- College students must have a grade point average of at least a 2.75 with consideration given to individual courses. Science course grades of C+ or higher are ordinarily required for admission. Grades and credits from developmental courses are not considered.
- Not have repeated any required science course more than one time for a passing grade and may have repeated no more than three total required science courses at any/all previous institutions they have attended.
- Demonstrate successful completion of three of four of the required sciences, two of which must be Anatomy and Physiology I and II.
- Submit two letters of reference from academic or workplace contacts.

### **Students Transferring From Other Nursing Programs**

Students wishing to transfer to Alvernia University from another institution of higher education must meet the general admission requirements of Alvernia University and have a minimum cumulative grade point average of 2.75. A grade of C+ or higher is expected for transfer science courses. Students transferring from another nursing program may not have repeated any required science course more than one time for a passing grade and may repeat no more than three total required science courses at any/all institutions they have attended, including Alvernia. Transferability of nursing courses is judged in relation to the Alvernia University nursing courses and curriculum sequence. Evaluation of transfer courses is completed in the Registrar's Office and will follow university policy. Students transferring from another nursing program must submit two letters of reference, at least one of which is written by an administrator or faculty member of the previous nursing program. Final decisions regarding transfer into the nursing major are made by the Nursing Department Chair. Applicants accepted into the nursing program may be required to successfully complete NUR 098 to demonstrate theoretical knowledge and clinical proficiency.

### **Returning and Readmitted Students**

Returning students who have not been enrolled in a clinical nursing course for one or more semesters and students who apply for readmission to the program are required to successfully complete NUR 098 to demonstrate theoretical knowledge and clinical proficiency.

### **Progression Policies**

- Achievement of a "C+" or better in each nursing course. Students may repeat/delete only one nursing course throughout the nursing program.
- Students who receive a grade of less than a "C+" in a nursing course may not progress in nursing courses for which that course is a prerequisite.

- Achievement of a “C” or better in each required science course. Students may repeat no more than three required foundational science courses (including BIO 107, BIO 117, BIO 108, BIO 118, CHE 106, CHE 109, and BIO 220) in order to earn a passing grade of at least a “C” and may repeat no single science course more than one time.
- Students who receive a grade of less than “C” in a required science course may not progress in nursing courses for which that science is a prerequisite.
- 90% or better on the Medication Administration/Math Calculation Examinations given in specified clinical courses.
- Students may not withdraw from any single NUR course more than one time and may not withdraw (without receiving a grade) from more than two total NUR courses during the time they are enrolled in the nursing program.
- Maintain a cumulative GPA of 2.5.
- Successful completion of ATI Computer Assessments as specified in course syllabi.
- Students must display professional, ethical behavior in the classroom and clinical setting as outlined in the Nursing Student Handbook.
- Adhere to policies found in the Nursing Student Handbook, the Alvernia University catalog and the Undergraduate Student Handbook.

### **Other Requirements**

In addition to Alvernia University’s health policies, nursing students are required to adhere to clinical facility health requirements. Documentation of receiving all required and recommended immunizations is required. Prior to entering the first nursing clinical course (NUR 220), certification in CPR (adult, child, and infant), HIPAA and the required background clearances must be completed.

### **Drug Testing**

Nursing students are required to undergo a substance abuse test for the presence of drugs or controlled substances immediately prior to clinical rotations. Policies regarding random drug screening and screening for cause are described in the Nursing Student Handbook.

### **Additional Fees**

Nursing students are responsible for additional expenses, which include, but are not limited to: lab fees, uniforms, CPR, child abuse clearance fees, tuberculin skin test, college identification, transportation/parking associated with clinical practice and applications for NCLEX and licensure.

## BACHELOR OF SCIENCE IN NURSING

**Minimum credits:** 123 credits

**Total Nursing Credits:** 61 credits

**Required Nursing Courses:** NUR 209, 210, 218, 220, 311, 312, 315, 317, 408, 409, 410, 412, 417, 418.

**Related Requirements:** The following are required as part of or in addition to the General Education Core: PSY 101, BIO 107/117, BIO 108/118, BIO 216, BIO 220, BIO 410; CHE 106/109; THE 210; MAT 100\*, MAT 208.

*\*MAT 100 may be waived by achieving a passing score on college-wide placement exam in mathematics. Guidelines for transfer students are available from the Admissions Office.*

### COURSE DESCRIPTIONS

NUR 098            0 credit

Assessment of Professional Nursing

This seminar is designed to facilitate the return, readmission and/or transfer of the nursing student into the professional baccalaureate nursing program. Various processes, as listed in the course syllabus, are used to assess the student's theoretical knowledge and clinical competency to determine the readiness of the student to progress to a sequential clinical nursing course. The course is individualized based on the student's previous coursework. Graded as pass/fail.

NUR 110            .5 credits

Introduction to Experiential Nursing Science I

Learning styles are assessed in order to facilitate success in nursing science. Learning tools to develop higher level thinking skills are applied. Cognitive, social, emotional and spiritual support systems are explored. Graded as pass/fail.

NUR 111            .5 credits

Introduction to Experiential Nursing Science II

This course provides essential tools for success in professional nursing. Foundational proficiencies in medical math and professional writing are explored. Opportunities and options for advancement in nursing practice, as well as exploration of nursing specialties are identified. Graded as pass/fail.

NUR 209            5 credits

Foundations of Professional Nursing Skills

This course introduces students to essential nursing skills, which are fundamental to nursing care delivery across all ages and practice settings. The exploration of concepts and practices basic to nursing care are studied.

Theoretical knowledge is integrated with prior knowledge of human anatomy and physiology. Acquisition of basic nursing skills prepares students to deliver safe and appropriate care in accordance with standards of professional nursing practice. This course includes both scheduled and self-directed clinical simulation experience. Prerequisites: BIO 107/117, 108/118.

**NUR 210**            3 credits

**Introduction to Nursing Practice: Roles and Responsibilities**

This course prepares pre-licensure nursing students to access, manage, utilize, and communicate information from a variety of sources in a professional, legal, and ethical manner. Essential aspects of the professional nursing role are introduced, including written and oral communication, healthcare informatics, teaching/learning principles, basic legal and ethical considerations, and advocacy. Information literacy skills are developed through the exploration of topics related to nursing history, concepts and theories, healthcare delivery systems, and professional roles. Skills provide a foundation for safe clinical nursing practice and participation in nursing scholarship. This course meets the Writing Enhanced requirement. Prerequisites: nursing major eligible for sophomore level nursing courses or permission. Co-requisite: NUR 209 or department permission.

**NUR 218**            3 credits

**Pharmacology and the Nursing Process**

The course will provide an overview of the basis of pharmacologic therapy for treatment of a wide variety of health conditions. Major drug classes and principles of pharmacodynamics are addressed, within a holistic, nursing process framework. Nursing responsibilities for medication administration and medication safety are discussed, with an emphasis on client and family education. Complementary therapies are introduced. Prerequisite: NUR 209 and 210. Co-requisite: NUR 220.

**NUR 220**            5 credits

**Nursing in Health and Illness I: Adult Medical-Surgical Clients**

This course introduces the student to professional nursing practice. Students have the opportunity to apply the nursing process to adult clients who are experiencing medical-surgical health alterations. Concepts related to patient-centered care and safety are integrated. Students will be responsible to demonstrate critical thinking skills in implementing and evaluating appropriate nursing interventions. This course includes both scheduled and self-directed simulation experiences in addition to placement in clinical settings. Three classroom hours and eighty-four clinical practice hours. Prerequisites: BIO 107/117 and BIO 108/118; NUR 209 and 210: completed Health and Immunization Records, Professional CPR Certification, completed FBI clearance, completed Pennsylvania Child Abuse History Clearance, Criminal Record Check and Drug Screen. Co-requisite: NUR 218.

NUR 311            3 credits

Health Assessment Across the Life Span

The nursing process guides the introduction of skills of development, psychosocial, cultural and physical assessment. Learning activities are designed to facilitate acquisition of theory and skills necessary to perform health assessment of the individual throughout the life span. Two class hours, two lab hours. Prerequisite: PSY 101; BIO 107, 108, 117, 118, 220; CHE 106/109 or CHE 104/110; NUR 218, 220. Co-requisite: NUR 315.

NUR 312            3 credits

Transcultural Nursing

Focuses on healthcare practices and beliefs in a variety of cultures. Political, economic, spiritual and geographic factors affecting healthcare are explored within the context of cultural systems and the client's perception of health, illness and care. Client education and nursing research are integrated with accepted anthropological and sociological concepts and theories. This course fulfills the human diversity graduation requirement. Prerequisites: NUR 311, 315.

NUR 315            9 credits

Nursing in Health and Illness II: Birth and Childhood to Adulthood

This course focuses on nursing practice for common health concerns of adults and childbearing families. Growth and development principles throughout the lifespan are emphasized as they relate to evidence-based healthcare. Intermediate level nursing skills are practiced in a variety of acute care and community settings. Six classroom hours and 126 clinical practice hours. Prerequisites: PSY 101; BIO 107/117, 108/118, 220; CHE 106/109 or CHE 104/110; NUR 218, 220. Co-requisite: NUR 311.

NUR 317            5 credits

Nursing in Health and Illness III: Behavioral Health and Chronicity

Focuses on using the nursing process to facilitate optimal health for individuals with chronic illnesses and their families. Discussed are nurses' various roles and responsibilities when designing and implementing a comprehensive plan of care for clients with acute and chronic behavioral health problems and medical-related chronic illnesses. Principles of psychopharmacology and evidence-based practice are integrated throughout the course. Students have the opportunity to utilize the nursing process while establishing therapeutic alliances within a variety of acute care, chronic care, and community-based settings. Three classroom hours and eighty-four clinical practice hours. Prerequisites: NUR 218, 220, 311, 315; PSY 101; BIO 107/117, 108/118, 220; CHE 106/109 or CHE 104/110.

NUR 408            3 credits

#### Introduction to Research Methods

This course serves as an introduction to the methodologies and design of nursing research. Opportunity is given to develop critical thinking skills and apply these skills to understanding research and the research process. As a basis for professional practice, students will analyze and discuss the clinical relevance of study findings and their implications for nursing practice. Prerequisite NUR 312 and 317. Pre- or Co-requisite: MAT 208 or 209, or permission of instructor.

NUR 409            3 credits

#### Leadership and Ethical Dimensions for Nursing Practice

Provides the professional nurse graduate with knowledge and skills essential to be a healthcare designer, coordinator and manager within a personal and professional ethical framework. Skills essential to this role are leadership, communication, collaboration, negotiation, coordination and evaluation of interdisciplinary healthcare teams for the purpose of outcome based practice. Prerequisites: NUR 408, 410, 412. Co-requisites: NUR 417, NUR 418.

NUR 410            5 credits

#### Nursing in Health and Illness IV: Adult and Geriatric Clients

This course addresses changes that accompany the aging process and relates these changes to adult human responses to selected health problems. Students apply the nursing process to complex health problems, integrating knowledge of nursing research, ethical-legal issues, and economics as they influence client health outcomes. The course presents concepts and applications for adults in later life, including grief and loss, palliative care, and death and dying. Three classroom hours and 108 clinical practice hours. Prerequisites: NUR 311, NUR 315, NUR 317, BIO 410.

NUR 412            5 credits

#### Nursing of the Family and the Community

This course focuses on the synthesis of public health promotion and maintenance principles within the nursing framework and the role of the professional nurse in various community settings. Family systems are explored. Students demonstrate the application of community health concepts with integration of wellness and health promotion programs for individuals, families and community groups. Three classroom hours and eighty-four supervised clinical practice hours. Prerequisites: NUR 311, NUR 312, NUR 315, NUR 317.

NUR 417            6 credits

#### Nursing Role Synthesis Practicum

As a capstone course, the focus is on implementing the coordination role of the professional nurse with groups of clients and caregivers to participate in management activities. Theories of leadership and management and related research are identified and applied to professional nursing within a variety of

healthcare systems. Focus is on refinement of critical thinking skills important to the entry-level role of the professional nurse. One-hour class and 15 hours clinical practicum. Prerequisites: NUR 408, 410, 412. Co-requisites: NUR 409, NUR 418.

NUR 418                    3 credits

Nursing of the Acute and Critically Ill

Focuses on nursing care of all ages responding to potential and actual complex alterations in health related to neurological cardio-vascular, endocrine and respiratory systems. The student is afforded the opportunity to increase nursing knowledge to provide care in complex acute and long-term healthcare needs.

Critical care concepts are addressed. Prerequisite: NUR 410. Co-requisite: NUR 417.

## **NURSING**

### **RN TO BSN COMPLETION PROGRAM**

The purpose of the Bachelor of Science in Nursing (BSN) program is to enhance the professional competency of the Registered Nurse within a Christian-oriented environment. The RN to BSN Completion Program is designed for Registered Nurses who are graduates of diploma or associate degree nursing programs, or new graduates anticipating taking the NCLEX-RN examination. The primary goal of the RN to BSN Completion Program is to prepare graduates to integrate values, skills, knowledge, and ethical standards of the nursing profession into their nursing practice. The graduates will develop and enhance their expertise to deliver healthcare to individuals across the lifespan, families, and community groups in a wide range of healthcare environments. Based upon transfer credits and completion of general education and nursing courses, students can complete the program in approximately 2 1/2 years part time.

The BSN program is designed to prepare the students for professional practice, summarized by the following nine outcomes expected of our graduates. Upon graduation the RN to BSN nursing student will be able to:

1. Demonstrate a solid base in liberal education – humanities, social sciences, and natural sciences – to inform generalist nursing practice.
2. Assume an ethical leadership role to improve quality and safety of clients' care within a variety of healthcare settings.
3. Integrate reliable evidence to inform practice and make clinical judgments.
4. Demonstrate skills in information technology and client care technologies to facilitate ethical and safe care.
5. Recognize local, state, national, and global trends in health policy and regulation and its effect on nursing practice.



6. Use professional communication and collaboration skills to deliver safe and evidence-based, client-centered care.
7. Use evidence-based disease prevention and health promotion practices across the life span.
8. Demonstrate the professional standards of moral, ethical, and legal conduct.
9. Synthesize core knowledge and skills for generalist nursing practice across the life span in a variety of healthcare settings.

The RN to BSN Completion Program adopts the American Nurses Association (ANA) Code of Ethics and the Pennsylvania State Board Professional Conduct Standards as guides for professional nurse behavior. These standards are based on an understanding that to practice nursing as an RN, the student agrees to uphold the trust that society has placed in the nursing profession. The statements of the Code and Standards provide guidance for the RN student to develop ethical foundations for practice and assist in the holistic development of the nurse.

The RN to BSN Completion Program is approved by the Pennsylvania Department of Education and accredited by the Commission on Collegiate Nursing Education (CCNE). Accreditation is an indication of public approbation, attesting to the quality of the educational program, and the continued commitment of the sponsoring institution to support the program. For further information about the accreditation of the BSN program, please contact the Commission on Collegiate Nursing Education, One Dupont Circle, NW, Suite 530, Washington, D.C., 20036-1120, [www.aacn.nche.edu/ccne-accreditation](http://www.aacn.nche.edu/ccne-accreditation). The curriculum reflects current national recommendations to increase diversity, safety, technology, and evidenced-based practice for the purpose of improving healthcare outcomes.

### **Admission Requirements**

Students are admitted to Alvernia University and are fully accepted in the RN to BSN Completion Program when the following documentation is submitted:

- RN to BSN Completion Program application
- Official transcript of high school grades or GED scores
- Photocopy of a current Pennsylvania Registered Nurse License (submit after NCLEX is completed). Students may be admitted to the RN to BSN Completion Program prior to passing the NCLEX; however, students are not permitted to progress and register for the two clinical courses (NUR 403 and 405) without a *current and valid* RN license.

### **Course Sequence**

Courses are predominantly designed to be taken non-sequentially. However, it is strongly recommended that students take 300 before 400 level nursing courses

because generally 400 level courses build on knowledge and skills obtained in 300 level courses. Students typically plan to take the two clinical courses (NUR 403 and 405) back-to-back in fall and spring semesters. NUR 411 and 419 are designed as culminating courses in the RN to BSN Completion Program and should be completed within the last 12 credits prior to graduation.

### **Progression Policies**

- 123 credits required for Bachelor of Science in Nursing degree
- 45 of the last 60 credits must be taken at Alvernia University
- Minimum of 30 credits at the 300/400 level
- Community service and human diversity requirements met in major
- Both theoretical and clinical components of the professional nursing courses must be satisfactorily completed
- A grade of “C” or better in all nursing courses is required to progress in the RN to BSN Completion Program
- Some liberal arts courses may be challenged by the College Level Examination Program (CLEP)
- Maintain a cumulative GPA of 2.0
- Adhere to the Alvernia University Catalog, Student Handbook, and Nursing Department RN to BSN Completion Program Student Handbook policies

## **BACHELOR OF SCIENCE IN NURSING**

### **Curriculum Overview**

Each student will be personally advised on what applies to Alvernia University’s graduation requirements.

### **Credit Breakdown:**

Diploma or ADN	67-75 credits
Alvernia’s Course Requirements	48-56 credits

**Minimum credits:** 123 credits

**Total Nursing Credits:** 31 credits

**Required Nursing Courses:** NUR 303, NUR 307, NUR 316, NUR 318, NUR 320, NUR 403, NUR 405, NUR 411, NUR 419

**Related Requirements:** The following are required as part of or in addition to the liberal arts core: Composition and Research (3 credits), Communication (3 credits), Art/Music/Theatre (3 credits), Literature (3 credits), Mathematics - statistics required (3-4 credits), History or Social Science (3 credits), Philosophy (3 credits), Philosophy/Theology (3 credits), and Medical Moral Theology (3 credits).

## COURSE DESCRIPTIONS

NUR 303            1 credit

### Preparation for Professional Writing

This course is designed for students to develop proficiency in information access and evaluation skills. The principles and techniques of academic writing along with other types of writing used by professional nurses will be introduced. Students will transform information into clear and concise narratives.

NUR 307            3 credits

### Concepts and Theories

The course provides an overview of historical aspects, contemporary issues, and future trends in nursing practice within a legal, moral, ethical, and political framework. The course introduces practicing nurses to multiple nursing theories, philosophies, and conceptual models with application to practice. This course is limited to professional RNs. Pre or co-requisite: NUR 303.

NUR 316            3 credits

### Health Assessment across the Lifespan for Professional Nurses

The nursing process guides the enhancement of skills for the systematic collection, organization, interpretation, integration, and communication of data reflecting the health status of individuals. Building upon skills obtained in nursing practice, learning activities within the classroom and clinical laboratory are designed to facilitate acquisition of theory and skills necessary to perform a holistic assessment of individuals across the lifespan. This course includes classroom and laboratory components and is limited to professional RNs.

NUR 318            3 credits

### Developing Cultural Competency and Global Awareness

This course focuses on improving the safety and quality of nursing practice in the light of our country's cultural pluralism. Healthcare practices and beliefs of selected cultures in the United States, as well as legal, moral, ethical, political, economic, spiritual, and geographical factors impacting healthcare in a pluralistic society are explored. Client education and nursing research are integrated with accepted anthropological and sociological concepts and theories. This course fulfills the human diversity graduation requirement. This course is limited to professional RNs. Pre or co-requisite: NUR 303.

NUR 320            3 credits

### Introduction to Healthcare Informatics

This course introduces the student to an overview of the basic concepts of healthcare informatics. This course integrates nursing science with computer technology and information science used to enhance the student's use of information technology for developing, evaluating, and disseminating healthcare

information. This course is limited to professional RNs. Pre or co-requisite: NUR 303.

NUR 403            6 credits

#### Health Restoration in the Aging Population

The nursing process is utilized to explore theories of health restoration in the aging population with chronic illness. Various cultural and complementary modalities used in health restoration are introduced with a focus on family support and community resources. Research studies are reviewed that relate to nursing care of aging patients in the community and hospital setting. Provided is an overview of holistic care for individuals and family members that assures quality end-of-life care. This course includes a clinical component and is limited to professional RNs.

NUR 405            6 credits

#### Health Promotion in Families and Communities

This course introduces varied aspects of community and public health nursing through the nursing process. Strategies will be utilized for health maintenance, health promotion, and disease prevention for clients of all ages, their families, the community, and multicultural populations. This course includes a clinical component and is limited to professional RNs.

NUR 411            3 credits

#### Nursing Leadership and Management

Provides the professional nurse with knowledge and skills essential to be a coordinator, manager, and leader within a personal and professional ethical framework. Skills essential to this role are leadership, communication, collaboration, effective time-management, appropriate negotiation, coordination and evaluation of interdisciplinary healthcare teams for the purpose of outcome-based practice. This course is limited to professional RNs. Pre or co-requisite: NUR 303.

NUR 419            3 credits

#### Research Methods for Professional Nurses

This course provides a comprehensive introduction to principles and practices underlying nursing research. Professional nurses are prepared to analyze, critique, interpret and apply evidence-based research to nursing practice. Nurses relate the value of using evidence-based data in their nursing practice. This course builds on nurses' experience and expertise by introducing quality improvement principles and tools that support a culture of improvement. The underpinning of the course shows professional nurses how to enhance a culture of improvement and use evidence-based research with the goal of improving patient/client outcomes. This course is limited to professional RNs. Pre or co-requisite: MAT 208 or 209. Pre or co-requisite: NUR 303.

NUR 421            1 credit

#### Altered Senses Across the Lifespan

This course is designed to provide awareness of clients across the life span exhibiting sensory deficits and/or those with altered senses from disabilities. Current treatment and available resources are explored. Problem analysis and specific nursing interventions to accomplish goals are introduced through case scenarios. Sensory alterations may be further explored through review of the literature, current research, and evidence-based clinical practice. Students will not receive credit for both NUR 421 and 422.

NUR 422            2 credits

#### Altered Senses Across the Lifespan

This course is designed to provide awareness of clients across the life span exhibiting sensory deficits and/or those with altered senses from disabilities. Current treatment and available resources are explored. Problem analysis and specific nursing interventions to accomplish goals are introduced through case scenarios. Sensory alterations may be further explored through review of the literature, current research, and evidence-based clinical practice. Students will not receive credit for both NUR 421 and 422.

## **MASTER OF SCIENCE IN NURSING (MSN)**

The MSN program is designed for professional nurses and offers two tracks: Nursing Education and Nursing Leadership and Healthcare Administration. The Nursing Education track offers in-depth study in the area of nursing education and a selected clinical practice focus. The Nursing Leadership and Healthcare Administration track is designed to develop qualities and skills to be effective leaders within local, regional, or national healthcare settings. The MSN program allows students to apply theory and research principles in a capstone project.

Multiple teaching-learning formats will help students excel in graduate studies. Courses are dynamic and utilize cutting edge distance-education technology to compliment supportive classroom environments. Alvernia University's Nursing Department has four Clinical Simulation Laboratories that are advanced and offer superb opportunity for the MSN student to practice teaching-learning in a state-of-the-art environment.

## OCCUPATIONAL THERAPY

The mission of the Alvernia University Occupational Therapy Department is to engage students in learning the knowledge, skills, and values of occupational therapy. The core values of the American Occupational Therapy Association (altruism, equality, freedom, justice, dignity, truth and prudence) and those of Alvernia University (service, humility, peacemaking, contemplation and collegiality) are complementary beliefs that value service to others. In harmony with the mission of the university, the Occupational Therapy Department seeks to prepare graduates who will be reflective practitioners, life-long learners, and ethical leaders engaged in their communities.

The five year combined Bachelor of Science in Health Science and Master of Science in Occupational Therapy degree programs are accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449; phone number 301-652-2682 and its web address is [www.acoteonline.org](http://www.acoteonline.org). Graduates are eligible to sit for the national certification examination for the occupational therapist administered by the National Board of Certification in Occupational Therapy (NBCOT). After successful completion of the NBCOT exam, the individual becomes an Occupational Therapist, Registered (OTR). Most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification examination. A felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure. For current information and updates, please refer to the university webpage for the occupational therapy program.

### Admissions Requirements

Admission requirements of the university must be met before applications to the program are considered. Students accepted by the university may apply for entry into the occupational therapy major by meeting the criteria listed below.

#### Minimum criteria for first-year students:

- Qualified high school graduates admitted to the freshman year will be able to identify occupational therapy as their field of study.
- Maintenance of an acceptable academic record during the undergraduate phase of the program guarantees the student a place in the professional graduate phase of the program.
- Cumulative Grade Point Average (GPA) of at least 3.0 on a 4.0 scale and a score of 1000 or better on the Scholastic Assessment Test (SAT) of the College Board or a score of 22 on the American College Testing (ACT) examination.

- Observation of occupational therapy in a practice setting is recommended, but not required.

**Minimum criteria for transfer students:**

- Submit an application form and the non-refundable \$25 application fee.
- Furnish transcript of college work previously taken. An official transcript of all previous work is required whether a student wants to transfer credits or not. Credit may be given for transfer courses in which the applicant has earned a “C” or higher.
- Transfer students are eligible for financial aid at the time of admission.
- A grade point average of 3.0 on a 4.0 scale for previous undergraduate work at a regionally accredited 2 or 4-year college.
- Score of 1000 (Reading and Math) or better on the Scholastic Assessment Test (SAT) of the College Board, or a score of 22 on the American College Testing (ACT) examination.

Please note: Transfers are accepted at the freshman, sophomore, and junior level only.

**Progression Requirements**

- A cumulative GPA of 3.0
- Achievement of “C” or higher in all undergraduate OT courses and related required courses and a grade of “P” in OT Fieldwork Practicum courses (OT FW).
- Any student not earning a cumulative GPA of 3.0 at the end of any semester will be placed on academic probation within the OT program, during which time the student should not overload credits. Any student on OT program academic probation over two consecutive semesters will be dismissed from the program. Review of the GPA occurs twice a year at the end of the fall and spring academic semesters.
- The repeat/delete option may be used three times total for grades below a “C” in OT and related required courses or an “F” in OT FW II. This repeat/delete option can be used one time for any one course. If the repeat option does not result in a grade of “C” or higher or “P” in FW II, the student will be dismissed from the program. The accumulation of more than three grades below a “C” or an “F” in FW II will result in dismissal from the program.
- Achievement of a 3.0 GPA is required for entrance into Level II Fieldwork.
- Any student who fails a Level II FW Practicum course may repeat the course one time only (this is included in the three course maximum). The course must be repeated at its next offering. The AFWC will schedule the FW experience. The student must contact the AFWC within two weeks following written notification from the OT program of the failure in order to begin the development of an action plan and

remediation. Please refer to the Alvernia University OT Student Handbook for full details of requirements and expectations. Any student who receives a grade of “F” after repeating either of the Level II FW Practicum courses will be dismissed from the OT program.

- Any time during FW, unsafe or unethical practice or student performance at the level of a failure, as determined by the AFWC and/or the FW supervisor may result in immediate removal from the FW site and a grade of “F.”
- Note: Many fieldwork sites require criminal background checks, abuse history clearances as well as health and immunization status, and drug screens. Students who are unable to meet these requirements cannot progress in the program.

### **Advancement to the graduate phase:**

Alvernia University students who have successfully completed the undergraduate phase of the program including successful completion of Level II fieldwork may transition directly into the graduate phase of the program.

- A cumulative GPA of 3.0 on a 4.0 scale for all undergraduate work.
- Achieved a final grade of “C” or better in all occupational therapy, prerequisite, and related required courses.
- Completion of all core requirements.
- Completion of all undergraduate requirements.
- Submission and approval of a portfolio of the student’s academic, service, and professional accomplishments.
- Successful completion of all course connected Level I fieldwork.
- Successful completion of Level II fieldwork. All Level II fieldwork must be completed in sequence and within 24 months following completion of the didactic portion of the program and no part of Level I fieldwork can be substituted for any part of Level II fieldwork.

### **Retention in the Graduate phase of the Occupational Therapy Program is dependent upon:**

- Achievement of final grade of “B” or better in all Occupational Therapy graduate courses.
- Upon completion of five graduate courses (including the COR courses), students with full graduate status must achieve and thereafter maintain a cumulative grade point average of 3.0 or higher to be retained in the program. Review of the GPA occurs twice a year at the end of the fall and spring academic semesters.
- Students in the BSHS and MSOT degree program are permitted to utilize the repeat/delete option twice in total for all graduate courses taken at Alvernia University, but only one time for any individual course (COR or OT).



- Students are not allowed to participate in the capstone activity in the degree unless they achieve a cumulative grade point average of 3.0 or higher.
- All graduate course work must be completed within 24 months of starting the graduate phase of the occupational therapy program.

## **COMBINED BACHELOR OF SCIENCE IN HEALTH SCIENCE AND MASTER OF SCIENCE IN OCCUPATIONAL THERAPY**

### **Course Requirements**

OT courses must be taken in sequence. All majors must achieve a final grade of “C” or better in all undergraduate OT courses, a grade of “P” in OT 482 and OT 483, prerequisites and related required courses and a final grade of “B” or better in all graduate courses. The repeat/delete option may be used three times total for undergraduate occupational therapy courses, and twice in total for graduate courses, but only one time for any individual course (COR or OT).

All Level II Fieldwork must be completed in sequence and within 24 months following completion of the didactic portion of the program. No part of Level I fieldwork can be substituted for any part of Level II fieldwork. Students with a health or physical challenge may be asked to obtain a physician’s statement that the condition will not be aggravated by or endanger clients/patients associated with the student in required coursework and fieldwork experiences. Reasonable accommodations will be made for students to meet ADA regulations.

Prior to fieldwork experience, students are required to submit to the university, and to fieldwork centers (as applicable): proof of ownership of health/accident insurance coverage and certification in Cardiac Pulmonary Resuscitation (CPR) (infant, child and adult), and First Aid. OT majors must obtain criminal record check (ACT 151) and Pennsylvania Child Abuse History clearance forms (ACT 34) prior to clinical education (Fieldwork Level I and II) and FBI clearance. In addition, clinical sites may request medical clearances, immunization records, and/or the results of drug tests. Students who are unable to meet these requirements cannot progress in the occupational therapy program.

Students may take no more than three additional credits while enrolled in OT 482 and/or OT 483 and must have approval of the program director. Student grievance policies are included in the *Undergraduate and Graduate Student Handbook*.

All graduate course work must be completed within 24 months of starting the graduate phase of the occupational therapy program.

Students in good standing who leave the occupational therapy program for less than one year may re-enroll if space is available. Requirements for readmission to Alvernia University must be met and students must comply with any changes to the program.

**Major:** 81 credits

OT 101, 321, 323, 325, 327, 332, 334, 336, 381, 382, 421, 423, 427, 481, 482, 483, 513, 517, 522, 526, 605, 607, 620, 622, 624, OT elective course: 3 credits. All 300-400 level OT courses must have a final grade of “C” or higher. All 500-600 level courses must have a final grade of “B” or higher.

**Related Area:** 33 credits

PSY 101, 208, 250/403; SOC 111; BIO 107/117, 108/118, 208, 211; MAT 208 – these must have a final grade of “C” or better.

COR 520 - must have a final grade of “B” or better.

**Recommended:** 3 credits

OT 429 (approved to meet the General Education requirement for a Writing Enhanced course).

## COURSE DESCRIPTIONS

OT 101                    3 credits

Introduction to Occupational Therapy

This course is designed for all students interested in occupational therapy. It provides an overview of the history, philosophical base, values, standards, and ethics of the occupational therapy profession and its practitioners. It introduces professional organizations, terminology, concepts and regulatory requirements of the profession. Required for freshmen occupational therapy students.

Recommended but not required for transfer students. For transfer students, a course from a major or discipline related to occupational therapy may be accepted to meet the degree requirement.

OT 321                    3 credits

Activity Analysis

Examines the theories underlying the use of occupation and purposeful activity in occupational therapy. Students will examine the principles of activity analysis within the scope of the occupational therapy process. They will identify how to analyze, grade, adapt, and teach activities to enable an individual to engage in chosen occupations to fulfill life roles and will learn how to integrate adaptive devices to promote individual occupational functioning. Laboratory sessions will provide students with the opportunity to practice and apply classroom-learned concepts. OT majors only. Prerequisites: Formal acceptance into the OT program or permission of the Program Director, PSY 101, SOC 111.

Prerequisite/Co-requisite: OT 101.

OT 323            3 credits

#### Paradigms and Theories in OT

The historical and philosophical foundations, paradigms, theories, and practice models that guide occupational therapy practice are examined as well as emerging models in response to a growing knowledge base. The historical and theoretical base for professional attitudes, values, and standards of behavior are explored as they provide a foundation for service to clients and the profession. OT majors only. Prerequisites: Formal acceptance into the OT program or permission of the Program Director. Prerequisite/Co-requisite: OT 101.

OT 325            3 credits

#### Pathology for OT Practitioners

Within the context of this course, students will examine pathophysiological dysfunctions that interfere with an individual's ability to engage and participate in meaningful occupation. Conditions will be framed within the context of the World Health Organization's International Classification of Function, and the effects of such conditions on an individual's occupational performance, performance skills, and performance factors. Additional emphasis will be placed on diagnostics, etiology, progression, performance deficits, intervention, prognosis and functional outcomes. OT majors only. Prerequisites: Formal acceptance into the OT program or permission of the Program Director, BIO 107 (Grade of C or higher), BIO 117 (Grade of C or higher), BIO 108 (Grade of C or higher), BIO 118 (Grade of C or higher) and BIO 211 (Grade of C or higher).

OT 327            3 credits

#### Occupational Therapy Process

Focuses on understanding and implementing the occupational therapy process, including evaluation (occupational profile and analysis of occupational performance), intervention (planning, implementing and reviewing), and outcomes (engagement in occupations) as a foundation to clinical reasoning. Concepts will be reinforced during weekly laboratory sessions. OT majors only. Prerequisites: Formal acceptance into the OT program or permission of the Program Director, OT 101 Prerequisite/Co-requisite for admitted freshmen and sophomores, Co-requisite: OT 381.

OT 332            3 credits

#### Grading & Adapting with Low Technology

This course will provide students will build on the concepts identified in activity analysis. Advances the use of occupation as the basis of practice for the occupational therapy profession. Actively utilizes the process of activity analysis for the selection, grading, and adaptation of occupations as a means of evaluation and intervention within the intervention process. Introduces students to the use of adaptive equipment as a means of promotion of independence in occupational performance, including; orthotics, prosthetics, and splinting.

Techniques and strategies for the teaching and practicing of the therapeutic utilization of occupations will be practiced in weekly lab sessions. OT majors only. Prerequisites: Formal acceptance into the OT program or permission of the Program Director, OT 321 (Grade of C or higher), OT 323 (Grade of C or higher), OT 325 (Grade of C or higher) and OT 327 (Grade of C or higher).

OT 334                    4 credits

Occupational Performance I: Pediatrics

This course will provide students with the knowledge, skills, and professional behaviors to implement occupation-based practice in current and emerging areas of service delivery in the area of pediatric occupational therapy. Best practice will be emphasized through critical thinking skills and the use of scientific inquiry and research. Techniques, strategies and practical skills for the promotion of health and participation utilizing engagement in occupations that are meaningful to clients will be reinforced during weekly lab sessions and refined during concurrent level I fieldwork experience. OT majors only. Prerequisite: Formal acceptance into the OT program or permission of the Program Director, OT 321 (Grade of C or higher), OT 323 (Grade of C or higher), OT 325 (Grade of C or higher), and OT 327 (Grade of C or higher). Co-requisite OT 382.

OT 336                    4 credits

Occupational Performance II: Adult

This course will provide students with the knowledge, skills, and professional behaviors to implement occupation-based practice in current and emerging areas of service delivery in the area of adult occupational therapy. Best practice will be emphasized through critical thinking skills and the use of scientific inquiry and research. Techniques, strategies, and practical skills for the promotion of health and participation utilizing engagement in occupations that are meaningful to clients will be reinforced during weekly lab sessions and refined during concurrent level I fieldwork experience. OT majors only. Prerequisite: Formal acceptance into the OT program or permission of the Program Director, OT 321 (Grade of C or higher), OT 323 (Grade of C or higher), OT 325 (Grade of C or higher), and OT 327 (Grade of C or higher). Co-requisite: OT 382.

OT 381                    1 credit

Fieldwork I Seminar I

Students will apply knowledge gained in concurrent OT courses to practice settings. With supervision, students will be provided the opportunity to observe and carry out professional responsibilities. Students will be guided in the process of developing the reflective skills needed for professional development. Students can expect to spend all or part of one day per week at a clinical site during the duration of the course. OT majors only. Prerequisites: formal acceptance into the OT Program or Permission of the Program Director. To insure the safety of the work environment, fieldwork sites require extensive documentation of

clearances including but not limited to background checks, health and immunization status, drug screens, and workplace trainings (CPR, HIPAA, etc). Students will not be permitted to attend their fieldwork placement until all clearances required by the program, the university and the site are completed, documented and approved. Failure to complete clearances will result in a delay to the start of fieldwork, it could also result in the fieldwork site refusing to accept the student and may lead to a grade of “F” in the course. Refer to the Alvernia University OT Student Handbook for full FW I requirements. Students are responsible for maintaining current health insurance, travel arrangements and costs during fieldwork. Co-requisite OT 327.

OT 382                    1 credit

Fieldwork I Seminar II

Students will apply knowledge gained in concurrent OT courses to practice settings. With supervision, students will be provided the opportunity to observe and carry out professional responsibilities. Students will be guided in the process of developing the reflective skills needed for professional development. Students can expect to spend all or part of one day per week at a clinical site during the duration of the course. OT majors only. Prerequisites: formal acceptance into the OT Program or Permission of the Program Director. To ensure the safety of the work environment, fieldwork sites require extensive documentation of clearances including but not limited to background checks, health and immunization status, drug screens, and workplace trainings (CPR, HIPAA, etc.). Students will not be permitted to attend their fieldwork placement until all clearances required by the program, the university and the site are completed, documented and approved. Failure to complete clearances will result in a delay to the start of fieldwork, it could also result in the fieldwork site refusing to accept the student and may lead to a grade of “F” in the course. Students are responsible for maintaining current health insurance, travel arrangements and costs during fieldwork. Co-requisite OT 334 and OT 336, or permission of the OT Program Director.

OT 421                    4 credits

Occupational Performance III: Behavioral Health

This course will provide students with the knowledge, skills, and professional behaviors to implement occupation-based practice in current and emerging areas of service delivery in the area of behavioral health occupational therapy. Best practice will be emphasized through critical thinking skills and the use of scientific inquiry and research. Techniques, strategies, and practical skills for the promotion of health and participation utilizing engagement in occupations that are meaningful to clients will be reinforced during weekly lab sessions and refined during concurrent level I fieldwork experience. OT majors only. Prerequisite: Formal acceptance into the OT program or permission of the Program Director, OT 321 (Grade C or higher), OT 323 (Grade C or higher), OT 325 (Grade C or higher), & OT 327 (Grade C or higher). Co-requisite: OT 481.

OT 423                    4 credits

Occupational Performance IV: Geriatric

This course will provide students with the knowledge, skills, and professional behaviors to implement occupation-based practice in current and emerging areas of service delivery in the area of geriatric occupational therapy. Best practice will be emphasized through critical thinking skills and the use of scientific inquiry and research. Techniques, strategies and practical skills for the promotion of health and participation utilizing engagement in occupations that are meaningful to clients will be reinforced during weekly lab sessions and refined during concurrent level I fieldwork experience. OT majors only.

Prerequisite: Formal acceptance into the OT program or permission of the Program Director, OT 321 (Grade C or higher), OT 323 (Grade C or higher), OT 325 (Grade C or higher), & OT 327 (Grade C or higher). Co-requisite: OT 481.

OT 427                    3 credits

Adapting and Grading-High Technology

Explores the expanding use of technology as it relates to all aspects of occupational therapy service delivery. Students build upon concepts learned in Grading and Adapting with Low Technology to the application of technology to increase function and improve quality of life for individuals. Students will explore the use of emergent technology in both client care and professional promotion capacities. Techniques and strategies for the teaching and practicing of occupational performance promotion will be completed in weekly lab sessions. OT majors only. Prerequisite: Formal acceptance into the OT program or permission of the Program Director, OT 332 (Grade C or higher).

OT 429                    3 credits

Writing for the Professional Occupational Therapist

This course will provide students with the knowledge and competencies to communicate effectively as occupational therapy professionals through a variety of writing mediums. Formal and informal written communication will be explored with an emphasis on reflective critical thinking, clear concise delivery, respectful professional tone and language appropriate for a variety of the intended audience. The course will include a focus on professional writing to support an evidence-based profession. OT majors only. This course meets the Writing Enhanced requirement. Prerequisite: Formal acceptance into the OT Program or Permission of the OT Chair.

OT 481                    1 credit

Fieldwork I Seminar III

Students will apply knowledge gained in concurrent OT courses to practice settings. With supervision, students will be provided the opportunity to observe and carry out professional responsibilities. Students will be guided in the process of developing the reflective skills needed for professional development. Students can expect to spend all or part of one day per week at a clinical site during the

duration of the course. OT majors only. Prerequisites: formal acceptance into the OT Program or Permission of the Program Director. To insure the safety of the work environment, fieldwork sites require extensive documentation of clearances including but not limited to background checks, health and immunization status, drug screens, and workplace trainings (CPR, HIPAA, etc.). Students will not be permitted to attend their fieldwork placement until all clearances required by the program, the university and the site are completed, documented and approved. Failure to complete clearances will result in a delay to the start of fieldwork, it could also result in the fieldwork site refusing to accept the student and may lead to a grade of "F" in the course. Refer to the Alvernia University OT Student Handbook for full FW I requirements. Students are responsible for maintaining current health insurance, travel arrangements and costs during fieldwork. Co-requisite OT 421 and OT 423, or permission of the OT Program Director.

OT 482                      6 credits

Occupational Therapy Fieldwork: Practicum I

This is the first in a sequence of two full-time (approximately 32-40 hours per week depending on the site), 12-week or the equivalent, educational experiences at an approved fieldwork site off-campus. It includes 1-2 seminars on campus. Under the supervision of a qualified practitioner, the student integrates undergraduate academic course work by focusing on the application of purposeful and meaningful occupation in the administration and management of occupational therapy services. The fieldwork experience promotes clinical reasoning and reflective practice; and develops professionalism, competence, and compassion as career responsibilities. This in-depth experience in delivery of occupational therapy interventions is an essential foundation for graduate studies. At the completion of this fieldwork students will demonstrate significant progress toward competency for entry-level practice. OT majors only.

Prerequisites: All undergraduate OT courses and all other related required courses with a "C" or better; completion of all undergraduate program requirements including satisfactory completion of all level I fieldwork; approval of academic fieldwork coordinator, the site clinical fieldwork educator, and/or the Program Director; To insure the safety of the work environment, fieldwork sites require extensive documentation of clearances including but not limited to background checks, health and immunization status, drug screens, and workplace trainings (CPR, HIPAA, etc.). Students must meet all site-specific requirements before attending their scheduled fieldwork placement. The student is responsible for maintaining current health insurance, travel, and accommodation expenses. Please refer to the Alvernia University OT Student Handbook for full FW II Practicum requirements. This course is graded pass/fail.

OT 483                    6 credits

Occupational Therapy Fieldwork: Practicum II

This is the second in a sequence of two full-time (approximately 32-40 hours per week depending on the site), 12-week or the equivalent, educational experiences at an approved fieldwork site off-campus. It includes 1-2 seminars on campus.

Under the supervision of a qualified practitioner, the student integrates undergraduate academic course work by focusing on the application of purposeful and meaningful occupation in the administration and management of occupational therapy services. The fieldwork experience promotes clinical reasoning and reflective practice; and develops professionalism, competence, and compassion as career responsibilities. This in-depth experience in delivery of occupational therapy interventions is an essential foundation for graduate studies. At the completion of this fieldwork students will demonstrate beginning competency for entry-level, generalist, professional practice. OT majors only.

Prerequisites: Grade of "P" in OT 482. To insure the safety of the work environment, fieldwork sites require extensive documentation of clearances including but not limited to background checks, health and immunization status, drug screens, and workplace trainings (CPR, HIPAA, etc.). Students must meet all site-specific requirements before attending their scheduled fieldwork placement. The student is responsible for maintaining current health insurance, travel, and accommodation expenses. Please refer to the Alvernia University OT Student Handbook for full FW II Practicum requirements. This course is graded Pass/Fail.

OT 485                    1-3 credits

Fieldwork Progression Seminar

This course is individually designed to offer specific support and progression work for the student who experienced an unsuccessful first or second Level II Fieldwork. This course will focus on assisting the student to acquire and practice the knowledge, skills, attitudes and behaviors considered necessary for a successful full-time occupational therapy clinical placement. This course must be completed after an unsuccessful Level II Fieldwork. Prerequisite: unsuccessful Level II Fieldwork (OT 482 or 483).

OT 502                    4 credits

Function and Technology

Explores the expanding use of technology as it relates to all aspects of occupational therapy services. Students study the use of adaptive equipment and technology to increase function and to improve the quality of life, computer documentation and telecommunications systems for supervisors, and emerging applications in reaching people in need in new and innovative ways. Students use emerging technology to develop a project for client intervention or occupational therapy service delivery.



OT 513                    3 credits

#### Advocacy and Public Policy

This course focuses on the identification and analysis of those factors influencing change within the profession and the promotion and development of leaders within the profession. Examines the needs, resources, policies and legislation affecting occupational therapy profession at the regional, national, and global levels. Issues of financing services, reimbursement, measuring outcomes, developing partnerships, grant writing, the development of business and marketing plans are presented. The role of the practitioner as an educator, advocate, and consultant with a central focus on occupation and its relationship to health are examined. OT majors only. Prerequisites: formal acceptance into the OT program or permission of the Program Director, OT 482, OT 483.

OT 517                    4 credits

#### Advanced Interventions

Continuation of the use of knowledge gained during undergraduate studies and fieldwork experiences to study problems in clinical reasoning. Students refine critical thinking skills and actively direct their own learning to explore client-centered, evidence based occupational therapy practice in selected case studies. All phases of the occupational therapy process are experienced through collaborative exercises, integrated lecture/laboratory classes, and field trips. The potential case studies represent persons with disorders and/or health conditions from birth through the end of life. OT majors only. Prerequisites: Formal acceptance into the MS OT degree or permission of the Program Director, OT 482 and 483.

OT 522                    3 credits

#### Leadership and Management

This course investigates the role of an occupational therapist as a supervisor, manager, and leader. Models of supervision and leadership are presented. Students will identify the major organizational structures within the profession, their organizations, and further examine the contexts of service delivery including professional, federal, state, and local laws and accrediting agencies (i.e. NBCOT, AOTA, state licensing boards, CARE, JCAHO, etc.) as they relate to managing services and leading organizations. Students will explore the operational functions required within multiple practice settings, and consider different models for ethical leadership. OT majors only. Prerequisite: Formal acceptance into the OT program or permission of the Program Director, OT 482 (Grade of "P") and OT 483 (Grade of "P").

OT 526                    3 credits

#### Current Trends In OT

This course will explore new and emerging topics of critical interest to meet society's evolving occupational needs. Emphasis will be placed on the distinctive value of occupational therapy and the role of the occupational

therapy practitioner in the delivering services to these practice settings. In addition, students will be engaged in activities to ready themselves for entry into the profession, including preparation for the national certification examination. OT majors only. Prerequisites OT 482 or OT 587.

OT 605                    3 credits

Research Design

Exploration of quantitative and qualitative research methodologies used in occupational therapy, and critical evaluation of published research in the field. Students will define an area of interest, identify an appropriate research design, and develop a research proposal. By the end of the course students will have obtained approval for their research project from their research advisor and, if appropriate, have submitted a complete application with the Institutional Review Board. OT majors only. Prerequisites: Matriculation into the MS OT degree program or permission of the Program Director, MAT 208 or equivalent, Pre- or Co-requisite: OT 607.

OT 607                    3 credits

Data Analysis for the Occupational Therapist

This course is designed to familiarize students with the tools used to analyze data in the social sciences. In the quantitative tradition, students will use mathematical and statistical tools including descriptive statistics, parametric and non-parametric inferential statistics to describe and analyze data. In the qualitative tradition students will use techniques to analyze artifacts to discover the meaning within the data. Issues of validity and reliability central to all research methodologies will be explored. In preparation for their own graduate research projects, students will learn how to use computer software such as SPSS and ATLAS.ti to describe, analyze, and present data. OT majors only. Prerequisites: Formal acceptance into the OT program or permission of the Program Director, MAT 208 or the equivalent (Grade "C" or higher).

OT 611                    3 credits

Inter-Professional Collaboration

This course is designed to provide a foundation for inter-professional collaborative services. Students in the health professions will intentionally collaborate via inter-professional learning activities to achieve the common goal of a safer and better patient/client-centered and community/population oriented healthcare system. Inter-professional education will explore the origins, practices and ethical standards of the participating healthcare professions. Issues for culturally responsive healthcare will be explored and inter-professional leadership strategies will be used to address problems of healthcare inequality and injustice. Prerequisite: OT 482 or OT 587.

OT 620            3 credits

#### Research Report

Students will continue learning about research in occupational therapy. Critical review of professional literature will prepare students to be users of research in clinical practice. Seminar discussions with faculty and fellow graduate students will provide opportunities to share and critique work. Students will participate in a mentored research project. For research work involving human subjects, no data collection will begin before approval for the project has been received from all necessary Institutional Review Boards (IRBs). Completion of the project initiated in the Research Design course will expand the understanding of the research process at the graduate level. The capstone activity of this course is a written report. OT majors only. Prerequisites: Formal acceptance into the MS OT degree or permission of the Program Director, OT 605, OT 607. Students must have earned a grade of B or higher in OT 605. Co-requisite OT 622.

OT 622            1 credit

#### Research Seminar

Together with OT 620, this course includes the capstone activity for Masters of Occupational Therapy degree program and as such must reflect a high degree of scholarly competence by the student. Students working with a research faculty mentor will develop their research project in preparation for critical review. For research work involving human subjects, no data collection will begin before approval for the project has been received from all necessary Institutional Review Boards (IRBs). The culminating activity of this course will be an oral defense and then a presentation of the project to the public. OT majors only. Prerequisites: Formal acceptance into the MS OT degree or permission of the Program Director, OT 605, OT 607. Students must have earned a grade of "B" or higher in OT 605. Co-requisite OT 620.

OT 624            3 credits

#### Best Ethical Practice in Occupational Therapy

The role of the occupational therapist as an ethical professional will be examined and expanded upon in this course. Professional roles, values, ethics, and behaviors will be explored as these relate to respecting self, peers, colleagues, clients, and supervisors. Within the context of this course, students will become critical consumers of information, through the identification, examination and analysis of information relative to the profession. Ethical and legal issues of malpractice and liability will be discussed. OT majors only. Prerequisite: formal acceptance into the OT program or permission of the Program Director, OT 482 (Grade of "P") and OT 483 (Grade of "P").

## PHILOSOPHY

The discipline of philosophy engages students in all areas of human inquiry and prepares students to lead examined lives. Students trace the origins and development of fundamental questions, ‘What is reality?’ ‘What is the nature and extent of our knowledge?’ ‘What are our ethical obligations to others?’ ‘What makes a life ‘good?’ ‘How should we define beauty and art?’ Both lower-division and upper-division courses in philosophy seek to develop problem-solving capabilities and skills in critical thinking in order to articulate, analyze, and synthesize complex ideas. This major prepares students for professional success and further academic pursuits. The degree is suited to graduate studies in many fields in addition to philosophy, providing a solid foundation for law, business, education, and journalism. A minor in philosophy may be taken in conjunction with any other major and can help students gain more perspective on their primary field of interest. Students who study philosophy become adept at creative out-of-the-box thinking that sets them up for success in their future careers.

### PHILOSOPHY

**Major:** 30 credits

PHI 105; 230; one of 200 or 210 or 420; 351; 353; and 15 philosophy elective credits. (at least 3 credits of the electives should be a 400 level course).

**Minor:** 18 credits

### COURSE DESCRIPTIONS

*\*All courses at 200 level or higher require PHI 105, Introduction to Philosophy, or permission of instructor. Students in the mid-degree program are exempt from this requirement.*

PHI 105                      3 credits

Introduction to Philosophy

Historical introduction to fundamental problems and methods of philosophy based on readings in ancient, medieval and modern literature.

PHI 200                      3 credits

Introduction to Ethics

An introduction to the philosophical study of morality, this course surveys major moral theories and includes a study of moral and ethical issues encountered in everyday life. Topics include the foundations of morality, moral relativism and skepticism, freedom and responsibility, and the theories of value. The course aims to help students develop their ability to read, write and think critically about ethical issues.

PHI 205            3 credits

Topics in Ethics

As a discussion and analysis of ethical issues and topics from diverse perspectives of moral philosophy, this course fulfills the general education ethics requirement. Topics vary from semester to semester and may be repeated under different topics.

PHI 206            3 credits

BioMedical Ethics

Discussion, explanation and analysis of major issues in biomedical ethics. Issues such as biomedical research ethics, medical professional ethics, reproductive genetic engineering, end-of-life decision making, maternal-fetal relationships and rights, biological and cognitive enhancements, and justice issues in healthcare will be discussed from the perspective of philosophical viewpoints of ethics, i.e., natural law theory, Kantian deontology, utilitarianism, social contract theory and virtue ethics.

PHI 207            3 credits

Ethics and Community Engagement

Investigates the relationship between ethics and community engagement. Inquires into the nature of social responsibility and moral dimensions of community improvement activities. Introduction to various theories of social change including but not limited to theories of citizenship, social movements, moral leadership, social justice, civil discourse and conflict resolution. Discussion of the various roles of civic, nonprofit, governmental and for-profit organizations in contributing to the public good.

PHI 210            3 credits

Professional Ethics

Study of ethical issues in the professions. Inquires into the nature of professional responsibility and the social role of the professions. Topics include an examination of professional codes of ethics, legal regulation of the professions, the relation between professional rights and social responsibilities, and professional ethics in a global society.

PHI 215            3 credits

Environmental Philosophy

Investigation of the human relation to the natural world from different philosophical perspectives and exploration of human ethical duties with regard to nature including environmental problems. Examination of environmental issues and policies regarding concerns such as economic impact, population, biodiversity, sustainability, climate and consumption. Fulfills the general education ethics requirement.

PHI 220            3 credits

Ethics and Law

Examination and evaluation of principal theories of the nature and purpose of law: natural law, legal realism and legal positivism. Foundations of the American legal system are examined in relation to these theories.

PHI 230            3 credits

Introduction to Logic

Introduction to traditional and modern logic designed to develop analytical and critical thinking skills in formulating definitions, analyzing arguments, and evaluating hypotheses. Topics include sentential calculus, the syllogism, formal/informal fallacies, and issues of inductive logic.

PHI 235            3 credits

Existentialism

Exploration of the threat of nihilism and the attempt to find or create meaning in contemporary life. Topics include central existentialist themes such as absurdity, alienation, anxiety, responsibility, freedom, engagement, and authenticity. This course considers both Christian and secular approaches to existentialism.

Prerequisite: PHI 105.

PHI 240            3 credits

Philosophy of Art and Beauty

Investigation of the nature and function of art, as well as the cognitive and moral import of the experience both of natural and artistic beauty. Readings in ancient philosophy, in the tradition of aesthetics, in phenomenology and in analytic and post-modern thought; artistic works and the writings of artists themselves will also be considered. Prerequisite: PHI 105.

PHI 245            3 credits

Eastern Philosophy and Religion

Exploration of philosophical and religious traditions of Asia. Buddhism, Confucianism, Hinduism, and Daoism will be discussed and compared to Western Traditions (Judeo-Christian Tradition and Ancient Greek Philosophy). Satisfies the diversity requirement. Cross-listed with THE 245.

PHI 250            3 credits

Feminist and Gender Theory

Feminist and Gender Theory provides theoretical foundation for interdisciplinary lines of inquiry concerning women, gender and sexuality. This course examines philosophical discourses emerging from feminism and gender studies. The purpose is to deepen our understanding of gender, and its intersection with race, class, sexuality, and nationality, and to examine the influence of power, privilege, and hierarchies in determining social relations. Fulfills the diversity requirement.

PHI 310            3 credits

### Metaphysics

Introduction to some of the main problems in the tradition of Western metaphysics. Issues considered include the nature of time and becoming, free will and determinism, the relation between mind and body, and the nature and existence of God. Discussions will focus on the value and significance of humanity's efforts to provide a unified understanding of reality with respect to perennial philosophical problems. May be repeated for credit under different topics. Prerequisite: PHI 105.

PHI 332            3 credits

### Minds, Brains, and Computers

Study of philosophical and foundational issues and basic concepts of cognitive science, including information processing, computation, representation, and the mind-body problem. Cognitive science is the scientific study of cognition, integrating contributions from the study of minds, brains, and computers. The idea that binds these different studies together is that the mind is a computational device run by the brain. The course will examine and evaluate this research program.

PHI 335            3 credits

### Philosophy of Love and Friendship

A study of love and friendship in Western philosophy and literature. The course will examine some basic questions about the nature of love and friendship that have been raised in the history of Western thought. Prerequisite: PHI 105 or 345.

PHI 345            3 credits

### Problems of Philosophy

A study of the fundamental problems of philosophy. Readings in Plato, Aristotle, Descartes, Hume, Kant, and contemporary Philosophy. This personal development of a unified con is designed as an introduction to philosophy for students in the mid-degree program. Other students must have permission of the instructor.

PHI 351            3 credits

### Ancient Philosophy

A study of the history of philosophy from Thales to Plotinus. Readings include selected works of the Pre-Socratics, Plato, and Aristotle, the Stoics, Epicureans, and Neo-Platonic philosophers.

260

PHI 352                    3 credits

Medieval Philosophy

A study of the history of philosophy from Boethius to William of Ockham. Reading include selected works of Boethius, Augustine, Abelard, Maimonides, Avicenna, Averroes, Aquinas, Bonaventure, and others.

PHI 353                    3 credits

Modern Philosophy

Survey of the history of Western philosophy from the renaissance to the 19<sup>th</sup> century. Readings from thinkers such as Descartes, Pascal, Locke, Spinoza, Leibniz, Hume, Berkeley, Kant, and Nietzsche. Prerequisite: PHI 105.

PHI 354                    3 credits

Topics in Contemporary Philosophy

Study of selected developments and controversies in 19<sup>th</sup>, 20<sup>th</sup>, and 21<sup>st</sup> Century philosophy. Topics could include German idealism, phenomenology, hermeneutics, philosophy of language, analytic philosophy, philosophy of the subject, American pragmatism, postmodernism, post-structuralism, critical theory, feminist philosophy. Course may be repeated for credit. Prerequisite: PHI 105.

PHI 420                    3 credits

Social and Political Philosophy

Readings from major historical sources in social and political philosophy. Focus on issues such as the grounds of political obligation, nature of justice, and relation between freedom and human rights. Cross-listed with POS 424.

PHI 440                    3 credits

Great Thinkers

Intensive study of the thoughts of outstanding philosophers from the ancient, medieval, modern or contemporary periods.

## PHYSICAL EDUCATION

All physical education activity courses are graded on a pass/fail basis except PED 133. A total of six activity credits in physical education may be applied to a baccalaureate degree (excluding PED 304).

### COURSE DESCRIPTIONS



PED 100            1 credit

Aerobics

Informative and practical. The physical and psychological effects of aerobics is discussed. Students learn basic aerobic steps and participate in numerous aerobic activities in a progression of aerobic routines. Taught by a certified aerobics instructor.

PED 103            1 credit

Dance

The basic concepts of dance as an art and movement form are covered. The various forms of dance vary from semester to semester and may include Jazz, Country Line, Modern, Hip-Hop, or Latin dance. Refer to the current course offerings for the specific type of dance course offered. This course may be repeated under different topics.

PED 105            1 credit

Varsity Experience

Varsity athletes may receive credit for varsity participation. Following completion of the season, an athlete must apply for credit. An athlete may only receive one credit for same varsity sport.

PED 119            1 credit

Martial Art

The basic concepts of martial arts and self-defense are covered. The forms of martial arts vary from semester to semester and may include Karate, Tae Kwon Do, or Kickboxing. Refer to the current course offerings for the specific type of martial arts course offered. This course may be repeated under different topics.

PED 133            1 credit

CPR/AED for the Professional

Students are exposed to skills appropriate to many emergency situations when immediate help is needed and medical help delayed. Successful completion of this course earns the student the American Red Cross certification for CPR/AED for the Professional. Students may only take PED 104 or PED 133.

PED 140            1 credit

Racquetball

Designed for beginners, but all are welcome. The first class meets in the Physical Education Center gymnasium. Remaining classes meet at Colonial Fitness (15 minute drive).

PED 205            1 credit

Varsity Experience

Students involved in a second varsity sport may apply for a second physical education credit.

PED 304            3 credits

### Wellness for Life

Study of the concepts that contribute to a lifestyle of wellness. Topics include principles of wellness, principles of community health, non-infectious diseases, accident and injury prevention, AIDS, STDs, nutrition, body composition, cardiovascular fitness, flexibility, strength, mental and emotional health, personality traits, stress, steroids, cancer, and substance abuse. Students appraise their personal wellness levels and design a personalized fitness program that is practically applied.

## DOCTOR OF PHYSICAL THERAPY

The Alvernia University Doctor of Physical Therapy (DPT) program achieved the status of candidacy from the Commission on Accreditation in Physical Therapy Education in Nov. 2014. The DPT is a clinical post-graduate doctoral degree that is three years in length and deemed to be the preferred credential for optimally preparing graduates to make significant contributions to the profession. Beginning in the fall of 2015, the DPT program will be offered in a 4+3 year curricular format. Prospective students with an earned bachelor's degree from Alvernia or another four-year accredited institution are welcome to apply. A 3+3 year, accelerated format is also available that allows Alvernia students who are admitted as undergraduate freshman into one of four majors (Biochemistry, Biology, Healthcare Science, or Psychology) to begin the professional phase of the curriculum in their senior year. Upon maintaining the required GPA and completion of all requirements, these students are eligible to compete with other accelerated students for entrance into the program, and may complete their undergraduate training and doctoral degree within six years. **See Alvernia DPT Program's current accreditation status in the "Accreditation" section.**

### **Admission Criteria into the Accelerated 3+3 Program:**

Decisions regarding the admission of 3+3 undergraduate students into the university will be made by the Office of Admissions in accordance with university's undergraduate admissions procedures for the DPT 3+3 program by meeting the admissions criteria listed below. Such students will follow a curricular track in one of four majors with "DPT as a second major." The majors include Biochemistry, Biology, Healthcare Science or Psychology. Students who have met the criteria and progression requirements will confirm their decision to accept a seat within the DPT program by January 15 of their junior year through written notification to the DPT Program Director. The DPT

Program Director will confirm that the student has successfully completed all admission criteria and the student will be notified of their acceptance into the program in written form by April 1. Students who have not met the criteria required to maintain a seat in the 3+3 program will also be notified in writing by April 1. A student's inability to enter the program through the 3+3 format will not preclude them from completing his or her final year of undergraduate study in BIO, HCS or PSYCH and then applying to the program through the 4+3 format after earning his or her bachelor's degree. In the event whereby a student does not meet the progression requirements within the DPT program during their 4th year in the 3+3 DPT curriculum, that student must complete the undergraduate curriculum and earn a BS in Biochemistry, Biology, Healthcare Science or Psychology.

In order to enter the DPT program within the accelerated 3+3 year format, students must complete the following pre-admission criteria by Jan. 15 of their junior year:

- Overall GPA of 3.25 and a Science GPA of 3.0
- Once a student declares their intention to pursue the accelerated track, all DPT prerequisite courses (listed below) must be taken at a four-year accredited institution. If taken at another institution, only courses in which the student achieved a grade of "B" or higher will be transferred.
- The repeat/delete option may be used only once for any DPT prerequisite course.
- Students who have met the progression requirements will confirm their decision to accept a seat within the DPT program by January 15 of their junior year through written notification to the DPT Program Director

### **DPT Prerequisite Courses:**

- Human Anatomy and Physiology I and II - 4 credits each with lab
- Biology – 3-4 credits
- Chemistry I and II - 4 credits each with lab
- Physics I and II - 4 credits each with lab
- Social Sciences – 6-9 credits (psychology, sociology/anthropology, humanities)
- Statistics - 3 credits
- English Composition/Writing - 3 credits

### **Transfer Admission into the Accelerated 3+3 Program:**

In order to be admitted into the Accelerated 3+3 program, a student must declare one of four undergraduate majors prior to the completion of his or her sophomore year. Admission of students into the accelerated program will be based on available space. These majors include Biochemistry, Biology, Healthcare Science, or Psychology all with “DPT as second major.”

The curricular tracks and the 8 semester plans for each of these majors as part of a 3+3 year curricular track are specifically detailed and differ from the 8 semester plans for the 4 year undergraduate major. Students who have met the criteria for inclusion into the 3+3 program must achieve all criteria for admission into the DPT program by Jan. 15 of their junior year.

Students who have not met the criteria for admission into the accelerated program undergraduate applicants to the university or students who did not declare an interest in the 3+3 program until after they have matriculated at Alvernia must proceed with coursework in one the four previously mentioned majors with “DPT as second major” and demonstrate academic success as evidenced by a minimum cumulative GPA of 3.25 and science GPA of 3.0 at the conclusion of their sophomore year in order to be admitted into the accelerated program.

Alvernia students or transfer students from other universities may also enter the 3+3 program.

Freshman or first semester sophomores that express interest in the 3+3 program, must change their major to one of the four aforementioned majors with “DPT as second major” and demonstrate academic success as evidenced by a minimum cumulative GPA of 3.25 and science GPA of 3.0 at the conclusion of his or her sophomore year in order to be admitted into the accelerated program. Second semester sophomores who express interest in the 3+3 program must have demonstrated academic success as evidenced by a minimum cumulative GPA of 3.25 and science GPA of 3.0 in his or her chosen major at the conclusion of his or her sophomore year in order to be admitted into the accelerated program. Students who are beyond their sophomore year, based on number of total credits completed, will not be eligible for the Accelerated 3+3 program. Students admitted into the accelerated 3+3 program must also meet all admission requirements by the conclusion of his or her junior year in order to be admitted into the DPT program.

If the maximum capacity of program enrollment has been reached, all students who have met the criteria, as described above, will be rank ordered based on the following: 1. order of confirmation into the accelerated program, with those admitted as first semester freshman having precedence, 2. science GPA, 3.0 cumulative GPA.

Effective Nov. 12, 2014, Alvernia University has been granted Candidate for Accreditation status by the Commission on Accreditation in Physical Therapy Education (1111 North Fairfax Street, Alexandria, VA, 22314; phone: 703-706-3245; email: [accreditation@apta.org](mailto:accreditation@apta.org)). Candidacy is not an accreditation status nor does it assure eventual accreditation. Candidate for Accreditation is a pre-accreditation status of affiliation with the Commission on Accreditation in

Physical Therapy Education that indicates the program is progressing toward accreditation.

## **COURSE DESCRIPTIONS**

DPT 500            5 credits

### Gross Anatomy and Histology

This course covers the study of human anatomical structures. Specimens, models, and videos aid a regional approach to the study of structures. The course consists of both lectures and laboratory experiences with pro-section and cadaver dissection. This course also includes a comprehensive study of the microscopic and submicroscopic structure of mammalian tissues.

DPT 501            4 credits

### Development Through the Lifespan

This course provides a foundation for physical therapy practice with individuals from infancy throughout adulthood and into old age. It will cover the typical developmental process from infancy through older adulthood. Topics related to the psychosocial, motor and cognitive impact of lifespan development will be addressed. Particular emphasis is placed on the relationship between the developmental process, including aging, and realistic goal-setting for physical therapy intervention of clients throughout adulthood. The course begins with a review of embryology that is pertinent to growth and development and physical therapy practice.

DPT 502            4 credits

### Kinesiology

This course is an in-depth study of the interaction between the muscular and skeletal systems to produce human movement. The student reviews the anatomy and physiology of the muscular system and learns the mechanical influence it has on the skeletal systems to produce joint movement. A study of posture and gait and functional activity is also included as well as an analysis of human posture and movement in normal and abnormal states. The course includes palpation of anatomical structures and study of the principles of biomechanics including arthrokinematics, osteokinematics, and kinetics.

DPT 504            3 credits

### Foundations of Physical Therapy

This course introduces the complex role of the physical therapist in today's evolving healthcare environment. Content includes a discussion of the responsibilities of the physical therapist to clients, families, colleagues, the profession, and the community. A discussion regarding the inter-professional nature of clinical practice including a review of the responsibilities of every member of the clinical team will be included. The concept of clinical decision-making and reasoning and the focus on patient-centered outcomes and clinical

expertise will be emphasized. Topics will include: Guide to Physical Therapist Practice, documentation, practice act, code of ethics, guide to professional conduct, altruistic service, entrepreneurialism, professional advocacy, respecting patients' rights and autonomy, cultural competency, physical therapy as a doctoring profession, autonomous practice, physician-owned physical therapy practices, evidence-based practice, direct access, delegation and supervision, the role of PT in health, wellness, and prevention, professional development plans, Vision 2020, clinical specialization and board certification, organization and history of the American Physical Therapy Association.

DPT 505                      3 credits

#### Education and Communication in Physical Therapy

This course will explore the educational and communication role of physical therapist as learners and educators with a focus on the education of clients, families, peers, health professionals and community members. Educational activities/roles for physical therapist, which include those within the classroom, clinic and beyond will be defined including community advocate, political action and pro bono work will be explored through active learning experiences. Emphasis will be placed on teaching, learning and motivation theories, learning styles and their applicability in the clinical, professional and academic environments. Students will focus on how to assess the needs of the learner, instructional design, instructional methods and evaluation of learning, including how to effectively educate others using culturally appropriate teaching method. This course is a blended course and will deliver 30%-75% of the content electronically which will allow for concurrent integration and reflect of education and communication activities while in a clinical setting. Students will participate in a community engagement project.

DPT 508                      4 credits

#### Physical Therapy Procedures I

This course consists of basic physical therapy interventions administered by a physical therapist in a clinical setting. Students will be taught and practice basic interventions, which can be applied to all patient populations, from three major components that comprise all physical therapy interventions. These components include: 1) coordination, communication, and documentation, 2) patient/client-related instruction, and 3) procedural interventions. Specific interventions covered in this course are divided into 3 units and include; Unit One: Functional Training (Self-care, Home Management Prescription and Application of Devices and Equipment), Manual Therapy (including therapeutic exercise) and Physical Agents. Communication/collaboration (verbal and nonverbal) across disciplines and settings and documentation including electronic documentation will be covered throughout each unit. Physical agents include Cryotherapy (cold packs, ice massage, vapocoolant spray), Hydrotherapy (contrast bath, pools, whirlpool tanks), Thermotherapy (dry heat, hot packs, paraffin baths) and, gravity assisted devices (tilt table) and CPM. Manual Therapy includes PROM, therapeutic

massage and an introduction to therapeutic exercise. Functional training includes activities of daily living training, device and equipment use and training, injury prevention, wheelchairs, and prescription and application of assistive devices. The application of these interventions will be explored through patient case examples. Lecture and laboratory components prepare students for direct patient care.

DPT 509                    4 credits

Foundations of Clinical Examination and Evaluation

This course includes exploration into the concepts related to examination, evaluation, and the collection of clinical data. Course content includes the administration and interpretation of clinical tests and measures pertaining to various body systems, screening to determine the need for physical therapy services or referral to other practitioners, assessment of general health status, and functional capacity. An emphasis will be placed on clinical decision-making in the use of clinical data to construct a physical therapy diagnosis, develop an appropriate plan of care, and evaluate outcomes. More specifically, students will develop proficiency in: obtaining a relevant history and engaging in a subjective interview, examination of vital signs, measurement of joint motion, measurement of strength and muscle function, measurement of edema, identification of structural deficits, assessment of pain, administration and evaluation of disability questionnaires, functional examination, the use of standardized tests and measures, and dynamometry. The principles of clinical decision-making, differential diagnosis, goal-setting, and the development of a physical therapy plan of care based on data collected during the examination will be explored.

DPT 516                    4 credits

Musculoskeletal Physical Therapy Practice I: Musculoskeletal Physiology and Pathophysiology

This course begins with a clinical approach to normal functioning physiological systems that are most relevant to the practice of musculoskeletal physical therapy as the foundation for a discussion of pathophysiology. The course begins with a regional approach to normal clinical physiology of the musculoskeletal system and progresses into discussion regarding selected syndromes impacting the musculoskeletal system. Content will cover the incidence/prevalence, etiology, clinical signs and symptoms, differential diagnosis, diagnostic imaging procedures, medical/surgical/pharmacologic management, as well as prognosis and potential for recovery for selected musculoskeletal conditions. The implications of each syndrome on physical therapy practice and evidence-based guidelines used in the management of these conditions will be reviewed. Using a regional approach, students will learn important features of selected conditions that will serve as the basis for future courses (DPT 616, DPT 617).

DPT 520            4 credits

Neuromuscular Physical Therapy Practice I: Neuromuscular Physiology and Pathophysiology

This course begins with a clinical approach to normal functioning physiological systems that are most relevant to the practice of neuromuscular physical therapy as the foundation for a discussion of pathophysiology. The course begins with a regional approach to normal clinical physiology of the neuromuscular system and progresses into discussion regarding selected syndromes impacting the neuromuscular system that range across the lifespan. Content will cover the incidence/ prevalence, etiology, clinical signs and symptoms, differential diagnosis, diagnostic imaging procedures, introduction to medical/ surgical/ pharmacologic management, as well as prognosis and potential for recovery of selected neuromuscular conditions. The implications of each syndrome on physical therapy practice and evidence-based guidelines used in the management of these conditions will be reviewed. Students will learn important features of selected conditions that will serve as the basis for future courses (DPT 620, DPT 621).

DPT 522            1 credit

Clinical Practice I

The purpose of this course is to introduce and prepare the students for clinical experiences within the first academic year. Students will participate in pre-clinical activities focusing on legal regulations of clinical practice, personal and client safety, and personal health. Students will have an opportunity to explore their preferred learning styles and personality traits, which will help students to understand how they learn and process information and will enable them to develop strategies to enhance their learning potential. Students will have an opportunity to identify their individual personality traits in order to provide them with insight into their motivation, actions and communication approaches and to understand these aspects in others. In the clinical settings, students will work one-to-one with a supervisor to observe clinical practice and practice newly learned concepts. An emphasis is placed on professional behavior and self-assessment of one's professional behavior. This is the first of four part-time internships and students will be placed inpatient or outpatient settings that emphasize physical therapy management of patients with musculoskeletal disorders.

DPT 523            1 credit

Clinical Practice II

The purpose of this course is to introduce and prepare the students for clinical experiences within the first academic year. Students will participate in pre-clinical activities focusing on legal regulations of clinical practice, personal and client safety, and personal health. Students will have an opportunity to explore their preferred learning styles and personality traits, which will help students to understand how they learn and process information and will enable them to



develop strategies to enhance their learning potential. Students will have an opportunity to identify their individual personality traits in order to provide them with insight into their motivation, actions and communication approaches and to understand these aspects in others. In the clinical settings, students will work one-to-one with a supervisor to observe clinical practice and practice newly learned concepts. An emphasis is placed on professional behavior and self-assessment of one's professional behavior. This is the first of four part-time internships and students will be placed inpatient or outpatient settings that emphasize physical therapy management of patients with musculoskeletal disorders.

DPT 524                      6 credits

#### Clinical Practice III

The purpose of this course is to foster the development of entry-level physical therapy skills in a non-specialized inpatient or outpatient setting. This is the first of four full-time clinical practice courses, which will occur in the third semester of the curriculum for 6 weeks. Under the supervision of a clinical instructor, students will practice physical therapy examination, evaluation, PT diagnosis, prognosis, and intervention procedures for individuals with musculoskeletal and neuromuscular disorders. Development of professional behaviors is an important component throughout the clinical practice series and students will have opportunities for self-assessment, self-reflection, peer and supervisory assessment. Students will be expected to perform at the beginning performance and/or advanced beginner performance by the conclusion of this internship as described by APTA's Clinical Performance Instrument.

DPT 604                      3 credits

#### Healthcare Policy & Issues in P.T.

This course is designed to introduce students to current issues within the national healthcare arena that impact healthcare and the profession of physical therapy. Such topics include: cultural competency, entitlement, rationing, consent, confidentiality and HIPAA, chronic illness and disability, epidemiology, beneficence, autonomy, ADA, reimbursement, health disparity, and healthcare advocacy. This course will review issues and explore cases related to the ethical and legal dimensions of healthcare and standards that govern practice. Various aspects of healthcare policy will be explored, which include current legislation that is most relevant to healthcare and the profession of physical therapy. Current issues related to the practice of physical therapy will include: malpractice, direct access, delegation and supervision, legal issues and liability, documentation, quality assurance and outcomes assessment, evidence-based/informed practice, expertise and clinical specialization, and ethical dilemmas currently facing the physical therapist. In addition, the course will cover the concept of disability, including several models used to classify disability. A discussion regarding the impact of disability and disease on individuals, family, and society will provide a framework for students to

appreciate the complex role of the physical therapist in managing clients as individuals with needs that go beyond the physical realm.

DPT 608                    4 credits

#### Physical Therapy Procedures II

This course provides an investigation into the use of electrotherapy as a diagnostic and treatment agent and explores the principles and practices of physical agents in physical therapy. The principles of electro-diagnostics and electrical stimulation will be covered in depth. The electrotherapy unit includes a discussion of electrophysiology, the instrumentation and application of various types of electrical stimulation modalities, as well as low-level laser, and biofeedback. Topics include electrical muscle stimulation, electrical stimulation for tissue repair, functional electrical stimulation, high voltage pulsed current, neuromuscular electrical stimulation, and transcutaneous electrical nerve stimulation. This unit is competency based, with ample practice time devoted to the appropriate utilization of electrotherapy as a treatment choice. As a continuation from DPT 508, the second half of this course includes instruction in the principles and practice of physical agents and modalities including such topics as: ultrasound, phonophoresis, infrared, laser, ultraviolet, compression bandages, garments, and taping, total contact casting, vasopneumatic compression devices, manual lymph drainage, diathermy, as well as intermittent, positional, and sustained mechanical traction.

DPT 612                    3 credits

#### Foundations of Clinical Research I

This course focuses on the application of clinical research principles to physical therapy practice. Students will be introduced to the concepts of measurement, research design, analysis and communication of physical therapy related research. A primary objective is for students to acquire the knowledge, understanding and skill necessary to obtain and critically read research relevant for physical therapy practice. Students will begin to interpret and apply published research through an understanding of the statistics and different methods of research. Concepts of evidence-based practice, ethics in research, development of a research question, searching the literature, appropriate referencing, and scientific writing style will be explored. Both quantitative and qualitative research designs will be introduced, however, an emphasis will be placed on exploring the nuances of quantitative research designs in physical therapy. Topics include: measurement theory, descriptive statistics, measures of variability, single subject designs, parametric and non-parametric statistics, inference, correlation and regression, reliability, sensitivity/specificity, and the use of SPSS software. The course focuses on the application of principles of clinical research to physical therapy practice. The student is expected to become proficient in the interpretation of published research by demonstrating knowledge of the application of statistics and different methods of research. The course also focuses on critically examining the psychometric properties of tests

and measures of health status, body function, and structure, activity, and participation.

DPT 616            4 credits

Musculoskeletal P.T. Practice II

This course includes a regional approach to musculoskeletal examination, evaluation, diagnosis, and prognosis of musculoskeletal conditions of the upper and lower extremity. Students will utilize evidence-based examination procedures to establish a differential diagnosis that informs intervention. The intervention aspect of the course includes the theory and practical application of therapeutic exercise and manual interventions. The principles of range of motion, proprioceptive neuromuscular facilitation, mobilization, stretching and progressive resistance activities are included, in addition to a review of adjunctive interventions. A review of common syndromes impacting the extremities throughout the lifespan will be reviewed with a discussion and practical application of a variety of proposed evidence-based physical therapy interventions.

DPT 617            4 credits

Musculoskeletal P.T. Practice III

This course includes a regional approach to musculoskeletal examination, evaluation, diagnosis, and prognosis of musculoskeletal spinal conditions. Students will utilize evidence-based examination procedures to establish a differential diagnosis that informs intervention. The intervention aspect of the course includes the theory and practical application of therapeutic exercise and manual interventions. The principles of range of motion, proprioceptive neuromuscular facilitation, mobilization, stretching and progressive resistance activities are included, in addition to a review of adjunctive interventions. A review of common syndromes impacting the spine throughout the lifespan will be reviewed with a discussion and practical application of a variety of proposed evidence-based physical therapy interventions. Additional topics will include women's health, aquatic therapy, aerobic fitness training, and health, wellness, and prevention, and functional capacity evaluations and work hardening/conditioning. Throughout the course, an emphasis will be placed on evidence-based, clinical decision making. This course will also include a review of concepts related to exercise physiology.

DPT 620            4 credits

Neuromuscular P.T. Practice II

This course will build on the content contained in DPT 520 and will focus on physical therapy examination and intervention of individuals with impairments of the central nervous system throughout the lifespan. Students will explore a variety of physical therapy management principles and procedures for individuals seen in the acute care, post-acute rehabilitation, skilled nursing, transitional care unit, and home healthcare practice settings with diagnoses of

cerebral vascular accident, cerebral palsy and other pediatric neuromuscular disorders, Parkinson's disease, disorders of the cerebellum, cognitive deficits and neglect, and other neuromuscular movement disorders. The principles of evidence-based practice will be applied to examination and intervention of individuals with neuromuscular impairments including NDT, constraint-induced therapy, CIT and partial weight gait training, management of spasticity, balance training, motor learning, advanced gait training.

DPT 621                    4 credits

#### Neuromuscular P.T. Practice III

This course will build on the content contained in DPT 520 and DPT 620 and will focus on physical therapy examination and intervention of individuals with impairments of the central nervous system. Students will explore a variety of physical therapy management principles and procedures for individuals seen in the post-acute rehabilitation setting with diagnoses of cerebral vascular accident, spinal cord injury, traumatic brain injury, and other neuromuscular movement disorders. The principles of evidence-based practice will be applied to examination and intervention including attention, memory, language, executive function, motor learning, and advanced wheelchair prescription, and principles of gait training and locomotion. This course will also include a unit on prosthetics and orthotics that includes evidence-based principles related to prescription, fitting, and training within the context of physical therapy.

DPT 622                    1 credit

#### Clinical Practice IV

The purpose of this course is to provide students with opportunities to apply newly learned concepts and skills within the clinical setting. The focus of course is on clinical observation and supervised application of appropriate examination and intervention skills/procedures. An emphasis is placed on professional behavior and self-assessment of one's professional behavior. This is the third of four part-time internships and students will be placed inpatient or outpatient settings that emphasize physical therapy management of patients with musculoskeletal, neuromuscular and cardiovascular/pulmonary disorders. Expectations for professional behavior and skills assessment will be commensurate with current course objectives.

DPT 623                    1 credit

#### Clinical Practice V

The purpose of this course is to provide students with opportunities to apply newly learned concepts and skills within the clinical setting. The focus of course is on clinical observation and supervised application of appropriate examination and intervention skills/procedures. An emphasis is placed on professional behavior and self-assessment of one's professional behavior. This is the third of four part-time internships and students will be placed inpatient or outpatient settings that emphasize physical therapy management of patients with

musculoskeletal, neuromuscular and cardiovascular/pulmonary disorders. Expectations for professional behavior and skills assessment will be commensurate with current course objectives.

DPT 624            6 credits

#### Clinical Practice VI

The purpose of this course is to foster the development of entry-level physical therapy skills in a non-specialized inpatient OR outpatient setting (which ever was not completed in DPT524). This is the second of four full time clinical internships and will occur in the sixth semester of the curriculum for 6 weeks. Under the supervision of a clinical instructor, students will practice physical therapy examination, evaluation, PT diagnosis, prognosis, and intervention procedures for individuals with musculoskeletal and neuromuscular disorders. Development of professional behaviors is an important component throughout the clinical practice series and students will have opportunities for self-assessment, self-reflection, peer and supervisory assessment. Students will be expected to perform at the Intermediate Performance and/or Advanced Intermediate Performance as assessed by APTA's Clinical Performance Instrument

DPT 628            3 credits

#### Cardiopulmonary P.T. Practice I

Structure and function of the cardiopulmonary system, which provides the foundation for the series of cardiopulmonary courses including histology and physiology with clinical application. This course will focus on the normal and abnormal physiology of the cardiovascular and pulmonary systems in the practice of physical therapy across the lifespan. A review of principles related to exercise physiology and normal and abnormal cardiorespiratory response to exercise. A review of selected conditions of the cardiopulmonary system will address the incidence/prevalence, etiology, clinical signs and symptoms, differential diagnosis, diagnostic imaging procedures, medical/ surgical/ pharmacologic management, as well as prognosis and potential for recovery for selected conditions. This course is used to build a foundation for courses later in the curriculum, which will address the examination, evaluation and intervention of patients with cardiovascular and pulmonary conditions.

DPT 629            4 credits

#### Cardiopulmonary P.T. Practice II

Cardiopulmonary examination, evaluation, diagnosis, prognosis, and intervention. This course includes a regional approach to the physical therapy management of the cardiopulmonary system in a variety of practice settings ranging from acute care to outpatient that builds on DPT 628. This course will focus on developing and refining examination and intervention skills in patients with acute pathologies. The course will include a didactic and lab component intended to develop the students' hands on ability in performing skills such as

strength, ROM assessment, balance, coordination, proprioception, auscultation of the heart and lungs, chest wall excursion and breathing pattern. In addition, students will gain exposure to intervention skills, including not only functional mobility, but also airway clearance and chest wall mobility techniques. Cases encountered in this class will encompass the musculoskeletal, neuromuscular, integumentary and cardiopulmonary systems. A portion of the course will be devoted to the principles of exercise physiology and students will be exposed to principles and practices designed to evaluate the body's response to exercise and implement interventions designed to improve cardiorespiratory and metabolic function through exercise.

DPT 704                    2 credits

Administration & Management in P.T.

This course exposes and introduces students to concepts related to the principles of management and supervision with special application to the physical therapy setting. Such topics will include: human resource management, billing procedures/reimbursement/software, business development and planning, entrepreneurship, organization of the work environment, risk management, material safety, employee feedback/ mentorship/evaluation, student supervision, professional consultation, writing job descriptions, interviewing skills, ADA, patient bill of rights, financial management, quality assurance, HIPAA, marketing, workers' compensation, documentation, private practice and clinic development, POPTS and competition and marketing, recruiting, licensure, OSHA/ JCAHO/CARF guidelines and accreditation.

DPT 708                    4 credits

Management of Medical/Surgical Conditions, Diagnostics, and Pharmacotherapeutics

This course is designed to introduce students to common medical and surgical conditions that may be encountered within the physical therapy setting. Lecture and discussion will focus on the etiology, pathogenesis, sequelae, clinical signs and symptoms, and prognosis for a wide range of common conditions impacting multiple body systems. A regional and systems-based approach will be adopted that allows students to appreciate the interdependence of body systems on one another. The impact of selected conditions on the physical therapy diagnosis, progression, outcome, and prognosis will be emphasized. The medical and surgical management of selected conditions will also be provided which emphasizes the impact of these procedures on physical therapy. Discussion will include a review of post-surgical protocols and precautions. This course will also include instruction in a wide range of diagnostic testing procedures used in current medical practice. A variety of diagnostic imaging procedures will be discussed, including plain film radiography, CT Scan, Scintigraphy, MRI, arthrography, angiography, EMG/NCV, lab values, among others, with an emphasis on the use of these procedures to assist in differential diagnosis. The diagnostic imaging component of the course emphasizes reading and

interpreting films, identifying basic radiographic anatomy, and the correlation of findings in the context of clinical cases. The pharmacology component of the course uses a case-based approach to studying the impact of pharmacotherapeutics on clinical decision making in physical therapy. The course is designed to develop a basic understanding of drug pharmacology and how to apply these concepts to the practice of physical therapy. Emphasis is placed on the mechanism of action of drugs, pharmacokinetics, side effects and therapeutic use. The overall goal is to foster an understanding of how pharmacological interventions may impact physical therapy care.

DPT 712                    2 credits

#### Foundations of Clinical Research II

This course is an introduction to qualitative research with an emphasis on the role that qualitative research fills in the evidence-based practice of physical therapy. The course will cover the assumptions of the qualitative paradigm, include a comparison to the quantitative paradigm, and discuss multimodal research where both paradigms are used together. Students will have opportunities to critically appraise the qualitative literature related to physical therapy.

DPT 713                    3 credits

#### Clinical Research Seminar I

This course provides students the opportunity to explore a specific research question related to physical therapy. In groups, students will have the opportunity to apply principles obtained in prior coursework to a specific research project in collaboration with a DPT faculty member. This course is the first of a two-part seminar series that guides students from the development of a research question, literature search, development of methodology, data collection, statistical analysis, and culminates in a presentation and/or publication.

DPT 714                    3 credits

#### Clinical Research Seminar II

This course provides students the opportunity to explore a specific research question related to physical therapy. In groups, students will have the opportunity to apply principles obtained in prior coursework to a specific research project in collaboration with a DPT faculty member. This course is the first of a two-part seminar series that guides students from the development of a research question, literature search, development of methodology, data collection, statistical analysis, and culminates in a presentation and/or publication.

DPT 724                    8 credits

Clinical Practice VII

This 12-week full-time clinical internship occurs post didactic and empowers (or facilitates) the student's practice of entry-level physical therapy skills, enabling a more accurate assessment of each student's entry-level proficiency. This internship will take place in either a rehabilitation setting where 40% or greater of patients have neuromuscular diagnosis or a specialized clinical setting of the student choice. Students will be placed in the alternative clinical setting for DPT 725. Students are expected to perform at the Advance Intermediate or Entry-Level levels as described in APTA's Clinical Performance Instrument in a variety of setting with patient populations that range from generalized, complex and may include specialty areas.

DPT 725                    8 credits

Clinical Practice VIII

This 12-week full-time clinical internship occurs post didactic and empowers (or facilitates) the student's practice of entry-level physical therapy skills, enabling a more accurate assessment of each student's entry-level proficiency. This internship will take place in either a rehabilitation setting where 40% or greater of patients have neuromuscular diagnosis or a specialized clinical setting of the student choice. Students will be placed in the alternative clinical setting completed for DPT 724. Students are expected to perform at the Advance Intermediate or Entry-Level levels as described in APTA's Clinical Performance Instrument in a variety of setting with patient populations that range from generalized, complex and may include specialty areas.

DPT 732                    3 credits

Integumentary Physical Therapy Practice

This course will explore physical therapy in the management of patients with integumentary conditions. This will include a study of normal and abnormal structures and function of the integumentary system and pathological alteration of structure and function. A general foundation in examination, evaluation, diagnosis, prognosis, interventions and outcomes for persons with various types of wounds will be provided. Application of specific tests and measures, their reliability and validity, and efficacy of treatment interventions will be covered. Clinical reasoning and decision-making will be fostered through multiple case studies.

DPT 801                    3 credits

Integumentary Physical Therapy Elective

This course provides specialized education on wound care practice for physical therapist. The course is intended for students who are interested in developing advanced knowledge and skill in all aspects of wound care. Content covered in this course will include but not limited to advanced modalities (mechanical, biological, pharmaceutical), up to date and evidence based interventions, and



business and marketing (billing, coding, practice management). Students will also have an opportunity to additional observation and hands-on clinical practice.

DPT 802                    3 credits

#### Pediatric Physical Therapy Elective

This course provides an in depth study of the practice of pediatric physical therapy. Tests and evaluations used in pediatric practice will be covered as part of a discussion of the entire evaluative process used in pediatrics. Physical therapy diagnosis and management of the broad array of clinical presentations seen in pediatrics will be discussed and practiced. The role of physical therapy in a variety of settings including home, clinical settings (out-patient and in-patient), educational environments and play environments will be discussed. Additional topics include the role of the family, use and procurement of special equipment, laws related to physical therapy as a related service and effective team membership.

DPT 803                    3 credits

#### Orthopaedic Manual Physical Therapy Elective

This course is designed to provide the student with an eclectic, entry-level knowledge of orthopaedic manual physical therapy strategies currently in use for the management of patients with musculoskeletal impairment. These strategies will range from soft tissue mobilization techniques to direct and indirect joint mobilization techniques for the spine and extremities. Lab activities, which will comprise the majority of the course, will focus on developing entry-level proficiency in a variety of techniques, including thrust and non-thrust mobilization that may be immediately translated into direct clinical practice. Lecture will focus on providing the theoretical framework and scientific evidence to substantiate the use of each methodology covered. An emphasis will be placed on the integration of evidence-based manual techniques into a comprehensive physical therapy examination and intervention plan.

DPT 810                    1 credit

#### Comprehensive Examination

This course is composed of the preparation and administration of a comprehensive examination. This examination is the culminating experience of the program, which reflects mastery of the didactic component of the physical therapy curriculum. The examination is 3 hours in duration and is comprised of 3 sets of 50 multiple-choice questions. Passage of this exam is required for graduation.

## PHYSICS

The Department of Science and Mathematics offers a minor in physics. The minor allows students to gain a basic understanding of the physical principles in the world around us.

Minor: 17 credits

PHY 200, 201, and 3 additional PHY courses above the 100 level.

### COURSE DESCRIPTIONS

PHY 103            4 credits

Earth Science

Designed to introduce students to an interdisciplinary study in the fundamentals of earth and space science. Major topics include physical and historical geology, astronomy, meteorology and oceanography. Integrates laboratory and classroom work for a total of five class hours per semester week.

PHY 106            3 credits

Ideas of Physics

Introduction to basic physics concepts with emphasis on applications of those principles. Designed for physical therapist assistants as well as liberal arts students. Course includes demonstrations of physics principles as well as hands-on activities. As a non-lab course this course does not satisfy the general education core.

PHY 110            4 credits

General Physics I

Introduction to standard non-calculus college physics course. Topics include Newton's laws of motion, work, energy, impulse, momentum, properties of solids, liquids, and gases, heat, and the laws of thermodynamics. Course includes three hours laboratory per week. Prerequisite: high school algebra.

PHY 111            4 credits

General Physics II

Continuation of Physics I. Topics include wave phenomena, electricity, magnetism, light, sound, optics, relativity and quantum theory. Prerequisite: PHY 110.

PHY 200            4 credits

Physics I

Introduction to standard calculus-based physics course. Topics include Newton's Laws of motion, work, energy, impulse, momentum, properties of solids,

liquids, and gases, heat, and the laws of thermodynamics. Course includes 3 hours of laboratory each week. Prerequisite: MAT 230.

PHY 201            4 credits

Physics II

Continuation of Physics I. Topics include wave phenomena, electricity, magnetism, light, sound, optics, relativity, and quantum theory. Prerequisite: PHY 200.

PHY 202            3 credits

Mechanics

Study of statics, kinematics and the dynamics of particles and rigid bodies with emphasis on the analysis of problems. Prerequisites: PHY 201, MAT 231.

PHY 206            3 credits

Optics

Study of the geometrical and physical theory of light. Prerequisite: PHY 201.

PHY 303            3 credits

Electricity and Magnetism

Theoretical study of electrostatics, electromagnetism, electromagnetic waves and direct and alternating current phenomena. Prerequisites: PHY 201, MAT 231.

PHY 304            3 credits

Modern Physics

Introduction to the theory of relativity, quantum theory, the Bohr theory of the atom, de Broglie waves, nuclear structure and nuclear reactions. Prerequisite: PHY 201.

## **POLITICAL SCIENCE**

Politics pervades every facet of our lives. Students who study political science are involved in an ongoing inquiry into the nature, use, and distribution of power; the source of political authority; and the on-going pursuit of justice in societies. Students who complete the political science program are able to pursue careers in law, government service, public policy or planning, journalism, political activism, non-profit organizations, management, teaching, the bureaucracy, diplomatic service, or any field that requires excellent communication and analytical skills.

The political science program has five main goals:

- To help students understand the nature of politics;

- To improve student knowledge and appreciation of various countries, governments, and political movements;
- To enable students to analyze trends and patterns in politics;
- To emphasize policy issues so that students become well-informed, democratic citizens who are able to evaluate governmental policies and world events;
- To produce students who think critically and originally about political problems and the world around them, and who are able to effectively communicate their views and opinions.

Ultimately all political science courses center around the questions of justice, the purposes of government, and the responsibilities of citizenship.

**Major:** 30 credits

**Required courses:** POS 101, 111, 212 or 225, 424, 425; five additional courses in political science; capstone research paper (completed in POS 425). Additionally, it is recommended that students complete an internship at the local, state or national level. Students can earn from 3-12 credits in the internship experience. Political science majors are encouraged to take complementary courses in history, philosophy, English, and communication.

**Minor:** 18 credits

Adding a political science minor to a student's course of study gives that student an understanding of the contemporary world and of important policy issues. The program allows students to achieve a minor through a flexible course of study that requires 18 total hours. A maximum of 6 hours may be attained through an internship experience.

## COURSE DESCRIPTIONS

POS 101                    3 credits

Introduction to Political Science

Introduction to politics and political theory; presentation of general information about various political systems. Focus is on the central question in politics — the quest for justice in society.

POS 111                    3 credits

American Democratic Government

Description and analysis of the basic institutions and political process of the American federal government.

POS 212            3 credits

Comparative Politics

Examination of governmental systems and politics around the world in a comparative view. Focus is on the importance and role of institutions in determining policy outcomes.

POS 221            3 credits

American Political Parties

Study of the two party system. Emphasis on voting behavior, campaign techniques, party organization, and the party as an organizer of governmental power.

POS 225            3 credits

Contemporary World Affairs

Study of contemporary issues in international relations and foreign policy. Focus is on international relations since 1945, current events, and significant international crises. Exposure to basic theories of international relations. Other topics include international law and organizations, international economics, and war and peace.

POS 317            3 credits

The Presidency

Historical perspective of presidency as an American institution; a study of duties and responsibilities of 20th Century presidency.

POS 318            3 credits

The Legislative Process

Analysis of history, composition and responsibilities of the American Congress and various state governments in the matter of legislation.

POS 331            3 credits

Constitutional Law

Introduction to the U.S. Constitution and major cases that have come before Supreme Court. Helps the student understand the role of the Constitution in the economy as well as its role as protector of the rights and liberties of the people of the United States. Course examines dynamic character of Constitutional interpretation in our nation's history.

POS 408            3 credits

American Foreign Policy

How is American foreign policy made? What priorities are evidenced in American foreign policy? These questions are addressed in this course, which focuses on contemporary American foreign policy. The course emphasizes the role of process in determining foreign policy outcomes. Specific current policies

are evaluated, focusing on questions of ethical or moral responsibility and obligation.

POS 424            3 credits

#### History of Political Thought

Focuses on the enduring questions of politics — what is justice and how can we attain it for ourselves and our societies? What is the proper relationship of the individual to the state? This course is an in-depth study of political thought through the ages, requiring direct text readings and critical analysis of the ideas that have shaped political theory. Cross-listed with PHI 420.

POS 425            3 credits

#### Research Seminar

Intensive study in research methodology. Student work culminates in a major research paper.

POS 430            credits vary

#### Internship

Students are encouraged to engage the world of politics through a practical field experience. Depending on the hours worked, students can earn between 3 and 12 credits for an internship. Although students may choose to do more than one internship for less than 12 credits, the maximum number of internship credits that may be applied to the requirements for completion of the major is 12.

## PSYCHOLOGY & COUNSELING

Psychology is a dynamic and highly marketable major that prepares students for success in a broad range of professions and/or graduate training. Our Bachelor of Science degree in psychology prepares students to study behavior and mental processes within an applied framework. This approach encourages students to integrate psychological research and theories as they relate to ethical practice, moral responsibility, and civic leadership. Students develop professional, scientific and critical thinking skills through experiential learning. Psychology majors generally pursue careers in healthcare, counseling, human resources, business, marketing, education, public relations, and child and elder care.

In the semester before the practicum, the student must obtain the following clearances:

- Child Abuse History Clearance (Act 151),
- Pennsylvania State Criminal History Record (Act 34),
- Federal Criminal History Record (Act 114)

If the clearances are not on file in the Psychology and Counseling Department prior to the first day of the semester, the student will not be allowed to enroll in the practicum. If the student fails a clearance, the course instructor will attempt to place the student in a practicum that does not require a clearance. The practicum agency makes the final decision regarding acceptance of a student with their organization.

### **Doctor of Physical Therapy (DPT) Program:**

The psychology major can be followed as a 3+3 year curricular track leading to potential matriculation into the DPT program in the senior year. That psychology curricular track and the 8 semester plan for the 3+ 3 year curricular track are specifically detailed and differ from the 8 semester plans for the 4 year undergraduate major in psychology. For further information about the accelerated 3+3 year Psychology/DPT program curricular track, visit <http://www.alvernia.edu/dpt> or contact the DPT Program Director, Dr. Christopher Wise, at [christopher.wise@alvernia.edu](mailto:christopher.wise@alvernia.edu).

## **PSYCHOLOGY**

**Major:** 44 credits

**Required:** PSY 101, 130, 208, 230, 250, 301, 314, 412, 413, 422, 423 and five electives.

**Requirements:** 6 credits from MAT 208, PHI 200

**Recommended:** BIO 109

**Minor:** 18 credits

Required: PSY 101, 208, 270, and three Electives (at least 6 credits at 300/400).

## **COURSE DESCRIPTIONS**

PSY 101            3 credits

Introductory Psychology

Introduction to major concepts and findings in psychology with emphasis on basic processes underlying human behavior. Prerequisite for all other psychology courses except PSY 306.

PSY 105            3 credits

Exploring Psychology

Designed to expose students to the world of psychology both experientially and through readings. Students identify personal and professional goals and values. Readings include topics in psychology, tailored to the interest of the student.

PSY 130            3 credits

Exploring Research

Students will learn basic skills and concepts for interpreting behavior. Students will become familiar with descriptive and correlational research design principles. Prerequisite: PSY 101.

PSY 208            3 credits

Human Development across the Life Span

Focuses on physical, cognitive, social, personality and moral development through life span from conception to death. Cross cultural, gender and minority issues are integrated when appropriate. Prerequisite: PSY 101.

PSY 210            3 credits

Educational Psychology

Investigates principles and practices related to learning and variety of factors that affect it. Prerequisite: PSY 101.

PSY 215            3 credits

Multicultural Issues in Psychology

Study of the universals of human behavior as well as the differences brought about by the specific needs, experiences and characteristics of diverse populations. The course examines communication, understanding and awareness among culturally different people. This course fulfills the human diversity graduation requirement. Prerequisite: PSY 101.

PSY 220            3 credits

Close Relationships

Close relationships are one of the most significant experiences in one's life. By understanding current theories and research in the field of close relationships, this course will help further students' understanding of topics such as: one's need for relationships, interpersonal attraction, love, attachment, communication, relationship maintenance, relationship trajectories, relationship dissolution, jealousy, and infidelity. Prerequisite: PSY 101.

PSY 230            3 credits

Applications of Research

Designed to extend the material covered in Psychology 130, this course focuses on developing skills to evaluate others' research and conduct scientific research in psychology. This course is essential for becoming a critical consumer of information from sources such as the media and government. Students will also develop an appreciation for the complexity of ethical issues related to research with human participants. This course meets the Writing Enhanced requirement. Prerequisites: PSY 130 and MAT 208.



PSY 250            3 credits

Introduction to Psychopathology

This is a survey course covering basic knowledge of mental illness and maladaptive behavior. The etiology, clinical picture and treatment of various syndromes are discussed. Prerequisite: PSY 101.

PSY 270            3 credits

Scientific Methods in Behavioral Science

This course is a survey of scientific methods that enable students to understand the significance and nature of methods in the behavioral sciences and be critical consumers of research. Prerequisite: PSY 101.

PSY 301            3 credits

History and Systems in Psychology

Study of the major schools in psychological thought, including philosophical and medical contributions to modern psychological views. Prerequisite: PSY 101.

PSY 303            3 credits

Psychology of Personality

Study of theoretical approaches to personality structure and development; contributions taken from psychodynamics, social, behavioral, trait and phenomenological theorists. Prerequisite: PSY 101, junior status or permission of instructor.

PSY 306            3 credits

Group Dynamics

Examination of forces involved in small group interaction. Small group work sessions developed.

PSY 308            3 credits

The Psychology of Gender

Focuses on research in gender-related differences and gender development from a variety of perspectives in psychology. Biological, cognitive, behavioral, and social factors that influence emergence of an individual's gender are examined. Special emphasis is placed on an analysis of the consequence of stereotypes and gender roles for individuals, relationships, psychological inquiry, and society as a whole. This course fulfills the human diversity graduation requirement. Prerequisite: PSY 101, junior status or permission of instructor.

PSY 312            3 credits

Psychology of Play

This course will examine the many cognitive, emotional, and social benefits of play throughout childhood and adulthood. As part of the course, students will be exposed to theoretical approaches towards play, read current research on play,

explore various types of play, and make connections between play and success in multiple domains including: academics, career, and long term functioning. May count as elective credit for major or minor.

PSY 314            3 credits

Applications of Theories and Techniques

This course provides the student with opportunities to develop basic techniques to be effective in professional settings. The course will focus on the development of personal and professional values that will strengthen professional and community relationships and contributions. The course will introduce students to formal regulations that govern professional ethics in psychology. Prerequisites: PSY 101, PSY 250.

PSY 330            3 credits

Crisis Management in Mental Health Field

Presents applied therapeutic crisis intervention in a way that effectively describes actual strategies. Endeavors to provide a perspective that “puts the student into the crisis situation as it is occurring,” enabling them to experience what a crisis worker experiences. Prerequisite: PSY 101, junior status or permission of instructor.

PSY 350            3 credits

Industrial & Organizational Psychology

Explores application of psychological principles and results of empirical research to the behavior of individuals in the workplace. Topics include organizational issues (e.g., work motivation, job attitudes, leadership, and organizational stress) and industrial issues (e.g., including employee attraction, selection, placement, performance appraisal and feedback, and ergonomics). Intrinsic connection between science and practice is emphasized throughout the course. Prerequisite: PSY 101, junior status or permission of instructor.

PSY 405            3 credits

Social Psychology

This course aims to discover the different ways in which people interact with other individuals, groups, and the larger society. This course will include the research and theories regarding self and person perceptions, attitudes, social influence, prejudice and discrimination, interpersonal relationships, aggression, and altruism, in addition to applications of social psychology to health, law, businesses, and the environment. Prerequisite: PSY 101, senior status or permission of instructor.

PSY 406            1 credit

Psychology Laboratory Research

This course provides motivated students with the opportunity to develop research skills by working directly with a sponsoring, tenure-track faculty

member in the department. Students may engage in the development, design, data collection and analysis of original psychological research. Due to the collaborative nature of most research projects in psychology, students will typically become a member of a research group associated with the faculty member. The student's role in the project will be well defined. Prerequisites: PSY 101 and permission of instructor. Repeatable.

PSY 408            3 credits

#### Senior Seminar

Course in which a project is prepared for professional written and oral presentation. Presentation of the completed project is required. Prerequisite: senior status or permission of instructor.

PSY 412            2 credits

#### Practicum I

Seniors select a practicum to gain experience in an area of interest. Prerequisite: senior (90 or more credits) psychology major; PSY 101, 314, and record of appropriate clearance/background checks. Co-requisite: PSY 422.

PSY 413            2 credits

#### Practicum II

Seniors select a practicum to gain experience in a second area of interest. Prerequisite: second semester senior psychology major or permission of instructor; PSY 101 and 314 and record of appropriate clearance/ background checks. Co-requisite: PSY 423.

PSY 422            2 credits

#### Ethical and Professional Issues I

Weekly seminars focus on sharing and evaluating practicum experiences. Integration of experiential learning with theory is stressed. Ethical and professional concerns are examined. Prerequisites: PHI 200 and senior psychology major. Co-requisite: PSY 412.

PSY 423            2 credits

#### Ethical and Professional Issues II

Weekly seminars focus on ethical, clinical and professional issues. Prerequisites: PHI 200 and senior psychology major. Co-requisite: PSY 413.

PSY 430            3 credits

#### Forensic Psychology

Presents theories and application of psychological knowledge to the civil and criminal justice system. The content will cover activities such as courtroom testimony, child custody evaluations, screening of law enforcement candidates, clinical services to offenders and staff of correctional facilities, research and

theory in area of criminal behavior, intervention and prevention programs.  
Prerequisite: PSY 101, senior status or permission of instructor.

PSY 440                    3 credits

### Sports Psychology

Studies the behavioral, affective and cognitive reactions to sport settings of both participants and fans. Theories and knowledge of psychology are presented in the context of applied, clinical, educational and experimental sport psychology. It is discussed how this specialty of psychology provides services to athletes and coaches based on psychological principles. Prerequisite: PSY 101, senior status or permission of instructor.

## **MASTER OF ARTS IN CLINICAL COUNSELING**

The Master of Arts in Clinical Counseling program is designed to combine theoretical knowledge, research, professional skills with an ethical foundation to prepare students to work with individuals, families, couples and groups. Special emphasis is placed on working with populations experiencing co-occurring mental health and substance abuse disorders. The clinical counseling program is approved by the Pennsylvania Department of Education.

## **SCIENCE**

SCI 305                    credits vary

### Research in BIO/CHE/MAT

Research of a select problem following a preliminary investigation under the direction of a faculty member. May be repeated.

SCI 402                    2 credits

### Seminar

Students research a topic, including review of the literature, and then prepare a paper for presentation.

SCI 406                    3 credits

### Research I

This is the first of two courses in the student research sequence. Students will develop a research project with a faculty member of their choice. This course will focus on a literature review, developing a research plan, conducting experiments, and interpreting results.

SCI 407            3 credits

#### Research II

This is the second of two courses in the student research sequence. Students will continue to work the research project with the faculty member of their choice from the previous semester; this will include completing any final experiments and wrapping-up their research project. Students will work to formulate conclusions and output their data in a presentable research format.

SCI 480            6 credits

#### Internship

Student must participate in 200 hours or more of biology-related activities at an off-campus site under the supervision of an internship sponsor. Internships may be procured at any business, academic, government or non-profit agency willing to engage interns in meaningful work or research activities. Prerequisites: junior status and a 2.5 GPA.

## SOCIAL SCIENCE

Social science courses provide opportunities for students to study the political, social, or psychological dimensions of human interactions. A SSC course may be taken to fulfill the Individuals and Communities requirement within the general education core.

### COURSE DESCRIPTIONS

SSC 111            3 credits

#### The Individual in Society

Introduction to concepts and methodology of social sciences and presentation of sample content for the systems of humanity: sociology, anthropology, history, political science, economics and international relations.

SSC 201            3 credits

#### Introduction to Cultural Anthropology

Study of learned behavior in human societies. Topics include cultures, interrelationships among peoples, and aspects of culture and environment. This course fulfills the human diversity graduation requirement.

SSC 222            3 credits

#### Introduction to Geography

Examination of the components of the geographic equation: environment, culture, technology and spatial interaction.

SSC 230            3 credits

Economic Geography

This course encourages students to understand the production, distribution, and consumption of goods and services using a 'geographical perspective.' Where do various economic activities take place and why? How are activities in one location linked with those in another? How have technological advances and public policy influenced the special organization of business enterprises? These questions are examined at geographical scales ranging from the local to the global, using a variety of case studies. There is a special emphasis on globalization, economic development, and the growing prominence of multi-national corporations in the world economy.

SSC 310            3 credits

Cultural Geography I

Examines major realms of the developed world: Western/Eastern Europe, the Soviet Union, Australia/New Zealand and Japan. Special combinations of cultural, physical, historical and organizational qualities of these realms are discussed in a geographical perspective. Emphasis is given to the study of these characteristic properties and how they imprint on the landscape, giving each region its own flavor and social environment. This course fulfills the human diversity graduation requirement.

SSC 311            2 credits

Cultural Geography II

Examines the major realms of the underdeveloped Third World: Central America, South America, North Africa, Southwest Asia, and Africa. The special combinations of cultural, physical, historical and organizational qualities of these realms are discussed from a geographical perspective. This course fulfills the human diversity graduation requirement.

SSC 321            3 credits

Global Society

Analysis of major issues facing mankind in the 21st century: security systems and disarmament, world economic order, development, resource/population balance, and human rights. This course fulfills the human diversity graduation requirement.

## **SOCIAL STUDIES**

The professional education program provides evidence that social studies certification candidates complete a program with the same academic core content area courses and required electives of a major in a bachelor's degree in one of the social studies disciplines along with collateral coursework in the remaining content areas. This program requires candidates to demonstrate the competencies necessary to teach the Pennsylvania Social Studies Academic Standards grades 7-12 and successfully execute required teacher examinations.

### **Social Studies Secondary Education Certification**

Secondary Education (7-12) Certification in Social Studies can be earned by Alvernia students who first complete their undergraduate degree in Social Studies and demonstrate content knowledge in this area on Pennsylvania's required Praxis exam in Social Studies. The following coursework is required and can be started as early as the undergraduate senior year, then completed as part of Alvernia University's post-baccalaureate program:

ED 203, ED 204, MED 505, MED 515, MED 545, MED 574, MED 615, MED 665, MED 670 and MED 672.

## **SOCIAL WORK**

Goals for student learning are conceptualized from the primary departmental goal, which is to prepare students for entry-level professional competence as generalist social work practitioners. The Social Work Department is accredited by: The Council on Social Work Education, 1725 Duke Street, Alexandria, Va., 22314-3457; phone number 703-683-8080. Social Work program graduates are awarded a Bachelor Degree of Social Work (BSW). No life experience or work experience credits are accepted for this program. The program provides educational courses and experiences designed to help the student explore the nature of the individual within society. Through a critical awareness of individual and social values, the student is exposed to a body of knowledge, which examines human behavior and development and gains the skills necessary to work effectively with individuals, families, groups, organizations, communities and the larger society. Issues concerning ethnicity, culture, gender and vulnerable populations are incorporated throughout the program. Students examine the contributions and needs of these special populations. The curriculum focuses on the various institutions that are designed to provide social services. In addition, the social work program motivates and prepares students for continued professional development and education.

Alvernia social work program goals are:

- To enhance students' critical thinking skills with the context of generalist social work practice with individuals, families, groups, organizations, and communities (in an urban setting);
- To foster students' understanding of the forms and mechanisms of oppression and discrimination and advocate for changes that advances social and economic justice;
- To encourage students to adopt and apply the value base of the profession and its ethical standards and principles and practice;
- Students will understand and interpret the history of the profession and analyze the influence of policy on organizations and service delivery systems;
- Students will use theoretical frameworks supported by empirical evidence to understand human development and behavior across the life span.

The social work program of Alvernia University defines Generalist Practice as a holistic approach that provides the practitioner with the knowledge, values and skills necessary to engage in a planned change process on a micro, mezzo and macro level, which includes individuals, families, groups, organizations, and communities. Building on the strengths perspective, this approach incorporates social systems and ecological models as a foundation for the planned change process.

Generalist social work incorporates knowledge that is transferable, empowers individuals, utilizes a variety of intervention strategies, analyzes development across the life span, evaluates the impact of social policies and serves populations-at-risk. Populations-at-risk include: people of color, women, children, older adults, the physically/mentally challenged, people of different sexual orientation, ethnicity, national origin or religious beliefs, and the economically disadvantaged. Generalist social work practice incorporates values that reflect the social worker's professional code of ethics (NASW Code of Ethics), which demands social responsibility and respect for diverse value systems, as well as a commitment to continued professional development. Generalist social work practice also incorporates skills that provide for assessing clients' needs, establishing goals and objectives, and implementation and evaluation of the planned change process.

Generalist social work practice links people with systems and focuses on equality for those people who are oppressed and discriminated against, taking into consideration institutional policies and procedures that hinder self-determination and growth.

The major sequence in social work practice in the last two years assists students through a planned change process in working with individuals, families, groups,



organizations, and communities served by both public and private agencies. Field Practicum constitutes an integral component of the total curriculum, and helps students integrate classroom learning with practice in the social service setting.

### **Social Work Clearance and Fieldwork Procedures**

- The following clearances are required for placement into social work fieldwork courses (SW 316, SW 403, SW 404): *(Clearances can take up to two months to process)*
  - Pennsylvania Criminal Background Check (ACT 151)
    - FBI Background Check (if an out-of-state student)
    - Child Abuse History Clearance (ACT 34)
    - FBI Clearance and Finger Printing
- As soon as the student achieves a 2.50 GPA and submits all passed clearances to the social work office, a letter of successful admittance into the social work program will be issued.
- Typically the clearances are submitted as part of the SW 201 course: Introduction to Social Work. Students who declare the social work major must submit all of the above clearances to the social work office in order to pass SW 201 — Introduction to Social Work.
- Students who transfer the equivalent of the Alvernia University SW 201 course are advised to begin the process for documentation of said clearances at least two months ahead of anticipated date for fieldwork placement into SW 316, SW 403 or SW 404. For those students who are transferring in to take SW 316, offered in the spring semester, the clearances must be received no later than October 30 in order to secure a fieldwork placement.
- In addition to Alvernia University's health policies, social work students are required to adhere to fieldwork agency health requirements.

## **BACHELOR OF SOCIAL WORK**

**Major:** 64 credits

**Social Work:** 52 credits

SW 201, 301, 302, 303, 304, 305, 306, 316, 401, 402, 403, 404, 405, 407, 408. Plus 9 elective credits selected from: SW 202, 203, 209, 211, 220, 231, 318, 319, 320, 322.

**Related Areas:** 12 credits

BIO 109; MAT 208 or 209; 3 credits in psychology; 3 credits in sociology.

### **Departmental Requirement:**

Students who achieve junior status must maintain an overall GPA of 2.50 to remain in good academic standing within the Social Work Department.

**Progression Policies:**

Achievement of a “C” or better in each social work (SW) course. Students may repeat/delete only one social work course throughout the program.

**GERONTOLOGY PROGRAMS**

Two programs, a gerontology minor and certificate of completion, are offered in gerontology to help students meet the rapidly expanding job market in the field of geriatrics.

A minor in gerontology offers one-to-one involvement with older adults, class experience in a variety of geriatric settings, and the theory necessary to work effectively with this population.

**Minor:** 18 credits

Required: SW 201, 203, 209, 211, 305, 316.

**Certificate of Completion:** 12 credits

The certificate of completion program is designed for individuals who have never attended college or who have a degree and want to complete this specialization.

**Required Courses:** SW 203, 209, 211, 316.

**CHILD ADVOCACY STUDIES (CAST) CERTIFICATE**

Child Advocacy Studies (CAST) certificate is designed to prepare students for the realities of child protection and serve the needs of learners specifically interested in professions that work directly with or among children, such as social workers, law enforcement offices, nurses, educators, allied health professionals, clerics and others who work with maltreated children.

The CAST certificate meets the mission of the National Child Protection Training Center (NCPTC), funded by the U.S. Department of Justice to end child abuse in the United States.

The Child Advocacy Studies (CAST) certificate curriculum of Alvernia University, modeled from the National Child Protection Training Center (NCPTC) focuses on an educational curriculum that is interdisciplinary, ethical, realistic, and culturally sensitive content that provides professionals working with children a foundation of responding to child maltreatment. Students learn about the various disciplinary responses to child maltreatment and will develop a multidisciplinary understanding of the most efficient responses. Students

completing these courses in the program will be better prepared to accomplish the work of related agencies as they advocate on behalf of survivors of child abuse. Criminal Background checks and Child Abuse Clearances are required before entrance into the first course of the sequence SW 318 and SW 319 is a prerequisite for the subsequent courses, SW 319, and SW 320.

Requirements: 9 credits from SW 318, 319, 320.

## **COURSE DESCRIPTIONS**

SW 201                    3 credits

### **Introduction to Social Work**

Introduction to society's response to social need through a generalist approach to family services, child welfare, physical and mental health services, school related services, corrections, gerontology and populations-at-risk. Social worker's response to meeting the needs of various multi-ethnic and multi-needs groups is emphasized. Integration of micro, mezzo and macro practice is included.

SW 202                    3 credits

### **Social Services to Children**

This course takes into consideration the historical perspective, socioeconomic factors and the multicultural variables that affect child welfare in the United States. Social services available to children are conceptualized and include supportive, supplementary and substitute services. Family services, homemaker service, foster care, Temporary Assistance to Needy Families (TANF), protective services, daycare, adoption and institutional care are services evaluated and discussed.

SW 203                    3 credits

### **The Process of Aging**

Explores the various theories of aging along with biological and psychosocial aging. Other issues include gender and ethnicity, personality and intellectual development, mental health and physical disease. A review of the process includes the lifeline from birth to death. The dimensions of the whole person will also be addressed by exploring the physical, emotional, intellectual and spiritual growth necessary to achieve human potential in later life.

SW 209                    3 credits

### **Death, Dying, and Bereavement**

This course explores the universal and profound experience of death, dying, and bereavement. Topics on terminal illness, the dying process, grief, and bereavement are emphasized, as well as how these topics are influenced by race, class, gender, cultural values, and religious beliefs. Consideration will be given to the contextual perspective of death and dying with attention paid to the beliefs and needs of individuals, families, and communities as they relate to loss and

mourning. Special topics (hospice, children's bereavement, etc.) will be discussed. This course fulfills the human diversity requirement.

SW 211                    3 credits

#### Intervention Strategies for Families

This course provides a foundation in working with individuals, families, and communities. Students are taught generalist skills in the context of families at the micro, mezzo, and macro levels. Students learn how to assess the needs of families and how to access services to meet those needs. An overview of different models of family intervention will be introduced.

SW 220                    3 credits

#### Mental Health in SW Across the Life Span

This course will explore topics in mental health, including the history of mental health services, symptoms, treatment, and outcomes of various mental health diagnoses, as well policy implications. Student will become familiar with the Diagnostic and Statistical Manual of Mental Disorders (DSM) and its practical use in the mental health field. Students will learn about various roles of social workers in mental health settings, as well as the roles of professionals from other disciplines.

SW 231                    3 credits

#### Culturally Sensitive Human Service Practice

Comparative exploration of ethnic, gender and sub-cultural norms of both clients and workers in various human service fields. Students examine the facts that eradicate biases of racism, ageism, sexism, sexual preference and groups mistreated by society. Students define their own strengths and biases in preparation for culturally diverse practice. This course fulfills the human diversity graduation requirement.

SW 301                    3 credits

#### Social Welfare

Social Welfare system in the U.S., including impact of poverty and contributions of various minority populations is examined. Topics include the various facets of American social welfare systems, including political, economic and social structures. An understanding of poverty in the United States is achieved, as well as the strategies to empower those affected by poverty. Prerequisite: SW 201.

SW 302                    3 credits

#### Social Policy

Process of policy formation including various components of American social welfare policy such as political and economic influences are analyzed. Emphasis is placed on the social worker's understanding of the process of effective policy formation and his/her role in developing and implementing functional programs

consistent with the mission of the social work profession to improve quality of life for all. Prerequisite: SW 301.

SW 303                    3 credits

Human Behavior/Social Environment I

Focuses on integration of the individual's biological, psychological, social and cultural systems from birth through young adulthood. Ecological and social system approaches will be used to study the person in environment. The perspective considers reciprocal impact of the individual on the environment. Studies the effect of human diversity on behavior in social situations.

Prerequisites: SW 201; PSY 101, SOC 111.

SW 304                    3 credits

Human Behavior/Social Environment II

Focuses on integration of the individual's biological, psychological, social and cultural systems from middle adulthood through later adulthood, using the ecological and social systems approach. Examination is made of interrelationship of micro, mezzo and macro systems. Effect of human diversity on behavior in social situations is studied. Emphasis is placed on ethnic and racial minorities, women and other populations-at-risk who are discriminated against. Prerequisite: SW 303.

SW 305                    3 credits

Social Work Practice I

Introduction to generalist social work practice to explore basic knowledge, values and skills of micro level intervention required for an entry-level professional practitioner. This course will focus on understanding the basic theories of social work intervention and assessment in working with individuals. Role-play is integral part of classroom experience. Prerequisites: SW 201, one course in psychology, one course in sociology.

SW 306                    3 credits

Social Work Practice II

This practice course focuses on mezzo systems, which include family systems and small groups. Emphasis is placed on the use of generalist social work knowledge, values, and skills as they apply to working with mezzo systems. Theory related to families and groups, and empirically based interventions are explored. Prerequisite: SW 305.

SW 316                    3 credits

Introduction to Field Education

This course will provide the introduction and foundation for the social work field education sequence. Students will explore the role of the social work profession in an organizational setting. Focus will be placed on understanding the relationship between theory and practice, and the various skills required for

social work intervention. Students will be introduced to generalist social work practice through a 100-hour social service agency experience. Prerequisite: SW 305.

SW 318                      3 credits

Child Advocacy I: Perspectives on Child Maltreatment and Advocacy

An introductory course for child advocacy studies, this course covers the history, comparative perspectives, the legal framework, responses to child maltreatment, the skills necessary to do the work, other pertinent issues pertaining to child maltreatment and child advocacy, and the future. The field of child maltreatment is fraught with controversy. Much of the class focuses on these controversies. The approach of the course will be from a variety of diverse, professional perspectives including the perspectives of a prosecuting attorney versus a defense attorney. The course is designed for students majoring in criminal justice, education, social work, sociology, psychology, nursing, paralegal, or other areas where knowledge of child maltreatment and advocating for children might be necessary. Much of the work will be hands-on.

Prerequisites: Child Abuse Clearances and Criminal Background Check must be received and on record before enrolling.

SW 319                      3 credits

Child Advocacy II: Professional and System Responses to Child Maltreatment

The second course for child advocacy studies focuses on the responses of professionals to allegations of child maltreatment. The purpose of this course is to expand the student's knowledge and skills in identifying, investigating and prosecuting child maltreatment. Students majoring in criminal justice, education, social work, sociology, psychology, nursing, paralegal and other areas where knowledge of child maltreatment investigation and advocacy are necessary will receive competency-based skills training such as forensic interviewing, documentation, etc. Prerequisite: SW 318 or permission of instructor.

SW 320                      3 credits

Child Advocacy III: Responding to the Survivor of Child Abuse and Survivor Responses

The third course for child advocacy studies is to prepare students to recognize the effects of child maltreatment and apply interventions strategies for children and their families. Multidisciplinary approaches to prevention, advocacy and treatment of child maltreatment survivors will be presented and discussed. The course is designed for students majoring in criminal justice, education, social work, sociology, psychology, nursing, paralegal, or other areas where knowledge of child maltreatment and advocating for children will be necessary. The experiential lab for this course involves courtroom observation and interaction with children. Prerequisites: SW 318, 319, or consent of instructor.

SW 322            3 credits

Healthcare, Chronic Illness, and the Social Work Profession

This course teaches practice models and multi-level methods of intervention for effective social work practice in healthcare. Included in the course are health promotion, disease prevention, assessment, treatment, rehabilitation, continuing care, and discharge planning.

SW 401            3 credits

Social Work Practice III

This course will expand the understanding of generalist social work practice through the integration of knowledge, values and skills in working with communities, organizations and government. Also included is discrimination and how it affects the functioning of these groups and the social work profession. Emphasis is placed on macro social work generalist practice with an introduction of the global challenges of international social work. Prerequisites: SW 306 and 316.

SW 402            3 credits

Social Work Practice IV — Capstone

This course is designed to serve as a capstone to the social work practice sequence. Students will demonstrate their understanding of working on micro, mezzo, and macro levels of practice integrating theory, empirical research, values and skills as integral to the generalist practice of social work.

Prerequisites: SW 401 and 405.

SW 403            4 credits

Senior Field Education I

Supervised social work practice in a human service agency. Students carry direct responsibilities. Minimum of 200 hours of work is required. Prerequisites: SW 306 and 316. Co-requisite: SW 407.

SW 404            4 credits

Senior Field Education II

Supervised social work practice in a human service agency. Students continue to carry out direct responsibilities. Minimum of 200 hours of work is required.

Prerequisite: SW 401. Co-requisite: SW 408.

SW 405            3 credits

Methods of Social Research

Introduces students to various methods of social research, including data collection and analysis. Students select a research topic associated with their field education experience and write a research proposal. Prepares students to effectively utilize current research in a professional practice. Prerequisites: MAT 208 or 209 and senior standing; juniors need permission of instructor.

300

SW 407                    1 credit

Senior Field Education I Seminar

Integration and application in greater depth of social work theory acquired in classroom with tasks and activities performed in social agency placement.

Prerequisite: All major requirements. Does not count toward general education core requirement. Co-requisite: SW 403.

SW 408                    1 credit

Senior Field Education II Seminar

Integration and application in greater depth of social work theory acquired in classroom with tasks and activities performed in the social agency placement.

Prerequisite: all major requirements. Does not count toward general education core requirement. Co-requisite: SW 404.

## SOCIOLOGY

Sociology is the study of social life and social causes and consequences of human behavior. Provides insight into how the individual shapes and is shaped by groups such as family, community, occupation and other associative situations. The sociology program provides an understanding of society in terms of its organization, institutions, social processes, and social relationships.

**Minor:** 18 credits

SOC 111, 401; 6 credits of sociology at the 200 level; 6 credits of sociology at the 300 or 400 level.

### COURSE DESCRIPTIONS

SOC 111                    3 credits

Principles of Sociology

An introduction to the major concepts in sociology. The nature and significance of culture, social groups, role and status, social interaction, stratification, system and structure are discussed within a sociological framework.

SOC 210                    3 credits

Sociology of the Family

Consideration of meanings of marriage and family, contemporary gender roles, intimate relationships and family life. All major areas are studied from a sociological perspective.



SOC 212            3 credits

Contemporary Social Problems

Examination of social problems, using a sociological perspective, within contemporary American society. Emphasis is placed on the analyses of social values in viewing social problems.

SOC 214            3 credits

Sociology of Education

An analysis of education as a social institution and its relationship to other institutions. The role of educator, administrator, student and parent are conceptualized along with implications regarding ethnicity and subcultures, social stratification and social changes.

SOC 306            3 credits

Racial and Cultural Relations

Analysis of ethnic and racial differentiation in pluralistic societies. Theories of dominant and minority groups are studied. This course fulfills the human diversity graduation requirement.

SOC 310            3 credits

Sociology of Health

A study of social and cultural factors in health and illness; and the social and structural organization of the healthcare system and its impact on society.

Prerequisite: SOC 111.

SOC 401            3 credits

Sociological Theory

An examination of sociological theory, classical and modern traditions; theorists such as Comte, Durkheim, Marx, Weber, Parsons, Merton, and others associated with contributing to sociology represent content for critical examination,

Prerequisite: SOC 111; 3 additional credits in Sociology.

SOC 411            3 credits

Sociology of Men and Women

Critical examination of the implications of traditional sexual roles; emphasis on the causes and consequences of current changes and the implication of these changes on the feminine identity, family structure, sexual revolution, and consumption patterns. This course fulfills the human diversity graduation requirement.

## SPORT MANAGEMENT

Students interested in sport management should see the **business** section of this catalog.

## SURGICAL TECHNOLOGY

The Surgical Technology (ST) program leading to an Associate of Science degree is a cooperative degree program between The Reading Hospital School of Health Sciences (RH-SHS) and Alvernia University. In addition to the Associate of Science degree, graduates will receive a Certificate in Surgery Technology from RH-SHS. This Surgical Technology Program is one of only a few programs nationwide in which students will earn a certificate in robotic surgery. The RH-SHS Surgical Technology Program is nationally accredited by The Commission on Accreditation of Allied Health Education Programs (CAAHEP). Additional information regarding CAAHEP can be obtained by contacting the organization directly at 1361 Park Street, Clearwater, FL 33756. 727-210-2350.

The Mission of the Surgical Technology Program is to prepare entry-level surgical technologists in the cognitive, psychomotor, and affective domains. Graduates will meet the diverse needs of the communities they serve with competence and compassion through the application of ethical standards, inter-professional collaboration, and active professional engagement.

### **Surgical Technology Student Learning Outcomes:**

1. Synthesize knowledge and skills essential to the successful practice of surgical technology.
2. Demonstrate skills to facilitate a safe environment within inter-professional healthcare settings.
3. Assume the role of an ethically competent Surgical Technologist.
4. Communicate effectively with all communities of interest in the delivery of safe patient care.
5. Model Professional development during the educational process.

### **Admissions Requirements:**

The ST Program student admission is the responsibility and at the discretion of the RH-SHS. Admission standards meet and/or exceed Alvernia University's admission standards. Admission to the ST program is competitive and the selection of students will be based on personal composition, academic ability, references, interview performance, aptitude tests, writing samples and previous healthcare experience. Refer to the RH-SHS Admission Office for details.

### **SURGICAL TECHNOLOGY PROGRAM LEADING TO AN ASSICATE OF SCIENCE DEGREE**

Minimum Credits: 74

Total ST Credits: 44

General Education/Core: 30

**Required ST Courses:** ST 100, 101, 200, 201

**Related Requirements:** The following are required as part of or in addition to the General Education/Core: BIO 107, 117, 108, 118, 220, COM 101, THE 210, PHI 105, PSY 101, Culture and Language (COM 213 recommended), and Creative Expressions (MUS 220 recommended).

## COURSE DESCRIPTIONS

ST 100                    9 credits

### Foundations of Surgical Technology

This course will provide the student with detailed instruction in a variety of subjects related to the study of Surgical Technology. These include, orientation to and history of surgical technology, microbiology, surgical environment and safety standards, disinfection and sterilization, aseptic technique, moral, legal, and ethical responsibilities, documentation, surgical counts, body mechanics, surgical terminology and communication skills, wound healing and wound closure, surgical instrumentation and equipment. This course will also include basic computer skills, electricity and electro-surgery, robotics, and the use of lasers in surgery. The student will learn basic draping skills, scrubbing, gowning, and gloving and the importance of hospital organization and the surgical team. Co-requisite: ST 101; Prerequisite: all general education courses.

ST 101                    4 credits

### Introduction to Patient Care

This course provides the student with a comprehensive overview and perioperative patient care including the variance in patient populations & biosocial needs, patient preparation and skin preparation, patient positioning, vital signs, urine catheterization, the use of surgical drains and dressings, care of surgical specimens, thermoregulatory devices, and pharmacology and anesthesia including the metric system and conversions. All-hazards preparation will also be discussed. Co-requisite: ST 100.

ST 200                    15 credits

### Surgical Specialties I

This course will provide the student with information and experience related to surgical specialties including the pathophysiology, instrumentation and supplies, patient preparation, procedure descriptions and progression, complications, and specialty medications and robotics. The specialty services covered in this course include general, gynecologic, ophthalmic, orthopedic, urologic surgery, cardiovascular-thoracic surgery, neurologic, otolaryngologic and plastic/maxillofacial surgery. In addition, the student will have the opportunity, under guidance from an Instructor or Preceptor, to first and second scrub and circulate for a variety of surgical procedures during clinical practice in all of the surgical specialties. Prerequisite: ST 100 and ST 101.

ST 201                      16 credits

### Surgical Specialties II

This course will build upon skills and provide in-depth information, simulated surgical experience, and clinical experience related to the surgical specialties. Under supervision, the student serves as the first and second scrub and circulates for a variety of surgical procedures in all specialties. In addition, didactic content is provided to assist the student to prepare for the surgical technology certification exam and transition into employment in the operating suite.

Prerequisite: ST 200.

## THEATRE

The mission of the theatre program at Alvernia is to provide:

- High quality education in skill, craft, and creative habits in theatre for students in the major and minor as part of a broad education in the liberal arts.
- A cultural *laboratory* (emphasizing learning through doing) for broad intellectual inquiry, creative exploration, spiritual discovery, artistic enrichment, and community interaction.
- High quality artistic product (appropriate to student artists) for all students and the wider campus community.
- Opportunities to foster an appreciation of theatre, promote cultural literacy, encourage creativity, and emphasize the importance of the trans-temporal, trans-cultural need to enact the great themes and stories at the core of human existence.

Alvernia provides many opportunities for students to participate in theatre. Students can major in theatre, communication (with a theatre emphasis), or have a minor in theatre. Students from any major can participate in the university's production program, which presents major works (Shakespeare, Chekhov, Sophocles, and world premieres of new plays). Beyond producing major plays, the theatre program has participated in the Peace and Justice Conference, Homecoming, and fund-raising events.

## THEATRE

**Major:** 48 credits

THR 142, 155, 156, 350, 355, 356, 357, 404, 434.

Majors must complete one of the two following requirements (9 credits each):

**Acting/Directing:** THR 255, THR 360 (may be repeated for 6 credits)

**Design/Technical Theatre:** THR 244, THR 357 (may be repeated for 6 credits)

English Elective: 6 credits – Recommend 2 from: ENG 213, 302, 303

Related Elective: 6 credits – Recommend 3 credits from: ART 101, 103, 105, 215, 217 and 3 credits from: MUS 121, 135, 222, 224, 331, 333.

Majors are also advised to take 4 credits of THR 134 as free electives.

**Theatre Minor:** 18 credits

A student pursuing another discipline may choose electives to form a theatre minor. Credit distribution is as follows: THR 150, 155, 255 or 350, 355 or 404; six credits from COM 250, 351; ENG 213, 302, 303.

## COURSE DESCRIPTIONS

THR 113            1 credit

Broadway/Show Dance

In this class students will investigate the vocabulary and creative potential of performance techniques through dance. Students will engage with these techniques through in-class technical practice, readings, reflection papers, and performances. A majority of this course will focus on preparation for the final performance. May be repeated once for credit.

THR 114            1 credit

Ballet

In this class students will investigate the vocabulary and creative potential of performance techniques through dance. Students will engage with these techniques through in-class technical practice, readings, reflection papers, and performances. A majority of this course will focus on preparation for the final performance. May be repeated once for credit.

THR 115            1 credit

Tap Dance

In this class students will investigate the vocabulary and creative potential of performance techniques through dance. Students will engage with these techniques through in-class technical practice, readings, reflection papers, and performances. A majority of this course will focus on preparation for the final performance. May be repeated once for credit.

THR 134            1 credit

Theatre Workshop

An overview of the various elements that make up the art of the theater. Students participate in the Alvernia University Theatre Ensemble (ACTE) and are responsible for production assignments. May be repeated for credit.

THR 142            3 credits

Creativity Workshop

The course explores the art of creativity in various fields of study. Through exercises, discussions, and research, students will learn the many tools and techniques for expressing creativity in their own field of study.

THR 150            3 credits

Introduction to Theatre

A brief, but comprehensive introductory view of the theatre examining all elements that make it a lively art.

THR 155            3 credits

Introduction to Acting

Principles of basic acting technique-given circumstances, tasks, facets of embodying and experiencing the portrayal of a character. Some attention given to physical and vocal characterization.

THR 156            3 credits

Theatrical Production and Design

This class is designed to give students an introduction to crafting scenery and to basic principles of scenery and lighting design.

THR 244            3 credits

Computer-Assisted Design

A course in AutoCAD and other design programs with a particular emphasis on their use in theatre.

THR 255            3 credits

Intermediate Acting

Intermediate instruction in techniques for character development including improvisation. Also an introduction to acting styles and acting in verse plays.

THR 350            3 credits

Directing for the Stage

Study of the principles and techniques used in leading the production of theatre and the development of the director. Students mount a one-act play.

Prerequisites: COM 134, 150, 155, or permission of instructor.

THR 355            3 credits

Theatre History

A comprehensive study of the history of theatre from its origins through the Renaissance.

THR 356            3 credits

### Theatre History II

A comprehensive study of the history of theatre from the neo-Classical era through today. This course meets the Writing Enhanced requirement.

THR 357            3 credits

### Behind the Curtain

Studying the various areas of show production. Topics vary from semester to semester: they may include specific study of time periods, prop creation, makeup design, costume design, advanced scenery and lighting, model creation, and mask making. This course may be repeated under different topics.

THR 360            3 credits

### Advanced Acting/Directing

Advanced instruction in techniques for actors and/or directors. This course may be repeated under different topics. Prerequisite: COM/THR 255 or COM/THR 350 or permission of instructor.

THR 404            3 credits

### Arts Operations

Explores business and finance issues associated with working in the arts as a profession. Includes working with arts organizations as well as arts entrepreneurship.

THR 434            3 credits

### Senior Production Workshop

Students assume leadership positions in the production of a theatrical event. Experiences may include acting, directing and/or design. Students establish an appropriate project with the director of the theatre program prior to enrolling in the course. Prerequisite: permission of instructor.

## THEOLOGY

Theological study long has attempted to address the most profound questions of existence and the meaning of the human religious experience. Theology courses ask these questions with attention to the universally human and particular focus on the Judeo-Christian tradition. The Catholic expression of that tradition receives the greatest, but not exclusive, emphasis.

A major in theology prepares students for further work in academe or seminary and also can serve to complement another major. As a discipline in the liberal arts, it refines critical thinking skills and teaches openness to the complexity of

serious issues. A minor in the discipline provides students with greater knowledge of religious questions.

## THEOLOGY

**Major:** 30 credits

THE 105, one course selected from: 200, 210, 225; 2 courses (6 credits) from among: THE 306, 308, 309; THE 380; 15 credits in theology electives.

**Minor:** 18 credits

## COURSE DESCRIPTIONS

*\*With the exception of THE 210 Medical Moral Theology, all courses at the 200 level or higher require THE 105 Foundations of Theology, or permission of the department chair. Students in the mid-degree program are exempt from this requirement.*

THE 105                    3 credits

Foundations of Theology

Inquiry into the nature of religion and its relation to other areas of human experience. Role of theology in bringing a religious tradition to reflective awareness. Focus on Christianity, especially its Catholic expression.

THE 200                    3 credits

Christian Approach to Morality

Study of fundamentals of moral theology: concepts of freedom, responsibility, law and conscience are surveyed within context of Catholic theology and natural law tradition.

THE 210                    3 credits

Medical Moral Theology

Investigation of moral problems, which can arise in the area of bioethics. Introductory survey of the basic Christian principles of morality is followed by treatment of various medical moral situations. A natural law methodology is applied throughout the course.

THE 225                    3 credits

Global Issues: The Gospel Perspective

Ethical concerns in war, peace, global and domestic policy, and other social issues. Addresses both Roman Catholic teachings and writings from other religions and cultures. This course fulfills the human diversity graduation requirement.



THE 235            3 credits

Topics in the Catholic Social Tradition:

Exploration of topics or principles that have been of special relevance in Catholic Social Teaching and Thought. Primary documents of the Catholic Church and some aspect of a natural or social science will be incorporated into an investigation of a selected topic in social ethics. Course fulfills the Search Ethical Leaders and Followers ethics requirement.

THE 245            3 credits

Eastern Philosophy and Religion

Exploration of philosophical and religious traditions of Asia. Buddhism, Confucianism, Hinduism, and Daoism will be discussed and compared to Western Traditions (Judeo-Christian Tradition and Ancient Greek Philosophy). Satisfies the diversity requirement.

THE 255            3 credits

Santo Domingo

This course will cover theology and social justice topics as they relate to service in the developing world. This is a service-learning course in which students will apply knowledge and skills acquired during the semester during a week-long immersion experience in Santo Domingo, Dominican Republic immediately following the semester. The coursework will explore a theology of liberation for the poor, Catholic social teaching, and advocacy methods. Students will relate the course content to their firsthand experience in the Dominican Republic through journal writing and a final service integration paper. Fulfills human diversity requirement.

THE 300            3 credits

Marriage and Sexuality

Theological study of dogmatic and moral questions concerning human sexuality and marriage in light of anthropology, the scriptures, natural law, traditions, and the understanding of revelation within history.

THE 306            3 credits

Biblical Studies: Gospel Portrait of Jesus

Examination of the portrayal of Jesus in Gospels of Matthew, Mark, Luke and John, using tools of historical and literary criticism.

THE 308            3 credits

Biblical Studies: Old Testament Studies

Examination of selected books of the Old Testament, including representation from Law, Prophets and Writings.

THE 309            3 credits

Biblical Studies: New Testament Studies

Examination of selected books of the New Testament, with particular emphasis on the Pauline writings.

THE 345            3 credits

Issues in Historical Theology

An historical study of the principal theological controversies that shaped the development of Christianity. This course is designed as an introduction to theological study for students in the mid-degree program. Other students must have permission of the instructor.

THE 350            3 credits

Franciscan Studies

Study of the life and spirit of St. Francis of Assisi, his charisma and its relevance for the contemporary world. Includes theological and philosophical perspectives of other Franciscans. Examines the historical and ecclesial environment of Franciscan Movement and its impact up to the present. This course meets the Writing Enhanced requirement.

THE 355            3 credits

Franciscan Pilgrimage to Assisi and Rome

This travel course prepares students for a cultural immersion in Italy where they will participate in an intercollegiate study-pilgrimage to Assisi and Rome, visiting historical and spiritual sites that trace the birth of the Franciscan movement. Prerequisite: THE 105; THE 350 recommended. Satisfies the human diversity requirement. Additional expenses will be incurred.

THE 364            3 credits

Mysticism

Study of mysticism focusing on the Christian tradition, but including examination of non-Christian religions as well.

THE 380            3 credits

Christ and the Church

Study of the various ways in which Christ has been understood by communities of faith. Particular attention is given to the New Testament. The role of the Church and its relation to Christ is considered, as well as its relation to the modern world.

THE 405            3 credits

Medieval and Reformation Theological Evolution

An historical study of the doctrinal and ecclesial developments that shaped the medieval and reformation periods. Prerequisite: THE 105 or 345.

THE 420            3 credits

### Worship and Sacraments

Study of the development of the theology of the sacraments. Specific treatment is given to the sacraments of initiation: baptism, confirmation, Eucharist. In addition, attention is also given to the sacraments of reconciliation, matrimony, holy orders, and anointing of the sick.

THE 425            3 credits

### Judaic Studies

In-depth study of the development of Jewish historical, cultural, religious, and political tradition. This course is partly supported by the Jewish Chautauqua Society.

## WOMEN'S AND GENDER STUDIES

Alvernia offers an interdisciplinary minor in women's and gender studies that will expose students to the historical, economic, social, psychological and political factors that have shaped traditional gender roles, contemporary issues of gender and sexuality, and historical struggles and achievements of women. As a discipline that addresses how gender intersects with categories such as sex, race, class, ethnicity, and nationality to shape identities and communities, WGS is committed to the ideals of inclusivity and diversity and shares in the Franciscan tradition of working toward social justice. By developing students' awareness of diversity, equality, and justice, this program participates in Alvernia's mission to provide students an intellectual breadth and an ethical foundation for their life-long personal and professional growth.

**Minor:** 18 credits

Required: PHI 250. 9-15 credits from: MUS 331, HIS 230, PSY 308, ENG 216, SOC 411, CJ 216, THE 300, Special Topics (identified by the instructor and approved by the WGS coordinator as specifically pertaining to the field of women and gender studies) and no more than 6 credits from: CJ 218, CJ 411, ENG 202, MUS 222, MUS 322, NUR 312, PHI 420, PSY 215, PSY 220, SSC 321, SW 202, WGS-Cognates.\*

\*Cognates are identified by the student, the WGS Coordinator and the course instructor. A contract is created to add a significant gender component to the general class requirement. These may include, but are not limited to, readings, guided research on a topical paper, service project or an honors thesis. The contract should be approved by the WGS Coordinator prior to the beginning of the course. Only one cognate course may count toward the minor.

## WORLD LANGUAGES

Courses are designed to enable students to acquire a functional competence of French, German, Italian, Latin and Spanish. Since the acquisition of a foreign language is closely linked with the culture of a given country, the instructors offer opportunities for students to appreciate, experience and learn to respect cultural differences through classroom discussions and/or presentation of a variety of material.

### **Requirements/Placement:**

Students are required to complete 6 credits, in sequence, in any one foreign language offered in the Alvernia curriculum. Placement of the student in the appropriate course level is determined by testing and/or the decision of the foreign language department staff.

### **Spanish Minor:**

A Spanish minor consists of 18 credits of Spanish at the 200 level and above. Exception: SPA 113 and 114 (Elementary Spanish I & II) are accepted toward the minor.

## **COURSE DESCRIPTIONS**

### **FRENCH**

FRE 101            3 credits

Elementary French I

Intro to basic skills of French speaking, listening, reading and writing. Emphasis on competence in grammar, vocabulary, pronunciation, and comprehension. For students with no previous background in French.

FRE 102            3 credits

Elementary French II

Continuation of French 101. Prerequisite: FRE 101 or equivalent.

FRE 201            3 credits

Intermediate French I

Review of grammar and syntax. Progressive development of the four basic communication skills. Introduction to literary readings. Prerequisite: FRE 102 or equivalent; or two years high school French.

FRE 202            3 credits

Intermediate French II

Continuation of French 201. Prerequisite: FRE 201 or equivalent.

**GERMAN**

GER 101            3 credits

Elementary German I

Introduction to basic skills of German speaking, listening, reading, writing. Emphasis on competence in grammar, vocabulary, pronunciation, comprehension. Prerequisite: no previous experience or one year high school German.

GER 102            3 credits

Elementary German II

Continuation of German 101. Prerequisite: GER 101 or equivalent.

GER 201            3 credits

Intermediate German I

Review of grammar and syntax. Progressive development of four basic communication skills. Prerequisite: GER 102 or equivalent.

GER 202            3 credits

Intermediate German II

Continuation of German 201.

**ITALIAN**

ITA 101            3 credits

Elementary Italian I

Introduction to basic skills of Italian speaking, listening, reading and writing. Emphasis on competence in grammar, vocabulary, pronunciation, comprehension. No prerequisite.

ITA 102            3 credits

Elementary Italian II

Continuation of Italian 101. Prerequisite: ITA 101 or equivalent.

**LATIN**

LAT 101            3 credits

Elementary Latin I

Introduction to basic forms, syntax and vocabulary. Selected prose readings. No prerequisite.

LAT 102            3 credits

Elementary Latin II

Continuation of Latin 101. Prerequisite: LAT 101.

## **SPANISH**

SPA 101            3 credits

Spanish for Beginners I

Introduction to basic skills of Spanish speaking, listening, reading and writing.

Emphasis on competence in grammar, vocabulary, pronunciation and

comprehension. For students with no previous Spanish background.

SPA 102            3 credits

Spanish for Beginners II

Continuation of Spanish 101. Prerequisite: SPA 101 or equivalent.

SPA 107            3 credits

Spanish for Health Professionals I

Designed to help students in health professions to develop proficiency in their communicative skills. Focus on vocabulary and situations encountered by health professionals. No prerequisite.

SPA 108            3 credits

Spanish for Health Professionals II

Continuation of Spanish 107. Prerequisite: Spanish 107 or equivalent.

SPA 109            3 credits

Spanish for Law Enforcement I

Designed to develop basic communication skills dealing with the law enforcement profession. No prerequisite.

SPA 110            3 credits

Spanish for Law Enforcement II

Continuation of Spanish 109. Prerequisite: SPA 109 or equivalent.

SPA 111            3 credits

Spanish for Teachers I

Designed to develop basic communication skills dealing with the education profession. No prerequisite.

SPA 112            3 credits

Spanish for Teachers II

Continuation of Spanish 111. Prerequisite: SPA 111 or equivalent.

SPA 113            3 credits

Elementary Spanish I

Development of proficiency in basic communication skills. Emphasis on listening comprehension and oral expression. Prerequisite: Spanish 102 or equivalent or 3 years of high school Spanish or permission of the instructor.

SPA 114            3 credits

Elementary Spanish II

Continuation of Spanish 113. Prerequisite: SPA 113 or equivalent.

SPA 151            3 credits

Practical Spanish Conversation

An immersion setting in which students learn related vocabulary and employ their language skills in real life experiences such as a one-week day camp for children in the Dominican Republic. Satisfies human diversity requirement. Prerequisite: SPA 102 or equivalent.

SPA 201            3 credits

Intermediate Spanish I

Review of grammar and syntax. Progressive development of four basic communication skills. Introduction to literary readings. Prerequisite: SPA 114 or equivalent or permission of instructor.

SPA 202            3 credits

Intermediate Spanish II

Continuation of Spanish 201. Prerequisite: SPA 201 or equivalent.

SPA 203            3 credits

Spanish Conversation and Composition I

Progressive development of oral proficiency and writing skills with emphasis on current topics. Literary and cultural readings. Prerequisite: SPA 202 or equivalent.

SPA 204            3 credits

Conversation and Composition II

Continuation of Spanish 203. Prerequisite: SPA 203 or equivalent.

SPA 311            3 credits

Cultural Perspectives of Spain

Discusses history, geography, art and music, daily life, celebrations, foods, stereotypes, ethnic groups, current events and the role of women today in Spain. This course is taught primarily in Spanish and fulfills the human diversity graduation requirement. Prerequisite: SPA 202 or permission of instructor.

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SPA 312                    3 credits

Cultural Perspectives of Latin America

Discusses history, geography, art and music, daily life, celebrations, foods, stereotypes, ethnic groups, current events and the role of women today in Mexico, the Caribbean, Central and South America. This course is primarily taught in Spanish and fulfills the human diversity graduation requirement.

Prerequisite: SPA 202 or permission.