

# Associate Degree Programs

---

## **Allied Health - Medical Technology Emphasis Associate in Science**

Curriculum Coordinator: Dorothy Anthony, DC, DACBN, Instructor

Keystone College offers a number of pre-professional tracks in the allied health disciplines including; nursing<sup>a,b</sup>, occupational therapy<sup>b</sup>, radiologic technology and diagnostic imaging<sup>a,b,c</sup>, radiation therapy<sup>c</sup>, respiratory care<sup>c</sup>, cardiac perfusion<sup>c</sup>, medical technology<sup>b,c</sup> and cytotechnology<sup>c</sup>. These programs provide the first two years of study required for the respective disciplines. After successful completion of all required coursework and experiential learning hours of study at Keystone College, the student will have the opportunity to transfer credits to articulating schools as listed for completion of studies within the discipline. The completion phase is usually an additional two years of study at the articulating university. Students in good academic standing will have all credits taken at Keystone College transfer into their respective articulating programs. Students successfully completing all graduation requirements will receive an associate in science.

The pre-medical technology emphasis prepares students for articulation into the SUNY Upstate Medical University 2+2 program in medical technology. Medical technologists are clinical laboratory scientists. They perform and use sophisticated laboratory techniques to aid the physician in uncovering diseases and monitoring medical conditions.

<sup>a</sup>College Misericordia, Dallas, Pennsylvania

<sup>b</sup>Thomas Jefferson University, Philadelphia, Pennsylvania

<sup>c</sup>State University of New York, Upstate Medical University, Syracuse, New York

### **Graduation Requirements**

ENGL 050 - Critical and Analytical Reading (see page 230)

### **Core Courses:**

COMM 107 - Speech Communication

ENGL 101 - College Writing I

ENGL 102 - College Writing II

IT 105 - PC Office Applications

IDS 101 - The First-Year Seminar

MATH - Basic Algebra or higher-level MATH course<sup>1</sup>

PHED 105 - Wellness and Fitness

### **Distribution Courses:**

Arts and Humanities Elective<sup>2</sup>

Arts and Humanities Elective<sup>2</sup>

CHEM 105 - General Chemistry I

CHEM 106 - General Chemistry II

PSYC 101 - General Psychology

Psychology Elective - 200-level or higher<sup>3</sup>

**Curriculum Courses:**

BIOL 105 - Human Anatomy and Physiology I  
BIOL 106 - Human Anatomy and Physiology II  
BIOL 113 - General Biology I  
BIOL 114 - General Biology II  
EXPL - Experiential Learning<sup>4</sup>  
MATH 113 - Precalculus  
MATH 205 - Statistics  
PHYS 200 - General Physics  
PHYS 205 - General Physics II

**Free Elective Courses:** Sufficient free electives must be taken to ensure that the student has at least 68 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>Students who do not have a sufficient math background will need to take MATH 101 prior to MATH 102. These students may require an extra semester or summer session to complete this degree.

<sup>2</sup>To be chosen from Philosophy 101, 102, English 201, 202, 203, or 204.

<sup>3</sup>Developmental Psychology (PSYC 200) preferred.

<sup>4</sup>Students must complete a minimum of one credit of EXPL during the summer or in their third or fourth semester.

## **Allied Health - Nursing/Cytotechnology Emphasis Associate in Science**

Curriculum Coordinator: Dorothy Anthony, DC, DACBN, Instructor

Keystone College offers a number of pre-professional tracks in the allied health disciplines including; nursing<sup>ab</sup>, occupational therapy<sup>b</sup>, radiologic technology and diagnostic imaging<sup>abc</sup>, radiation therapy<sup>c</sup>, respiratory care<sup>c</sup>, cardiac perfusion<sup>c</sup>, medical technology<sup>bc</sup> and cytotechnology<sup>c</sup>. These programs provide the first two years of study required for the respective disciplines. After successful completion of all required coursework and EXPL hours of study at Keystone College, the student will have the opportunity to transfer credits to articulating schools as listed for completion of studies within the discipline. The completion phase is usually an additional two years of study at the articulating university.

Students in good academic standing will have all credits taken at Keystone College transfer into their respective articulating programs. Students successfully completing all graduation requirements will receive an associate in science.

The nursing curriculum prepares students to work with physicians and other health care professionals wherever health care is provided. The cytotechnology curriculum prepares students as clinical investigators specializing in identification of cellular abnormalities, and aids in the diagnosis of benign and malignant conditions. The nursing/cytotechnology emphasis prepares students for entry into baccalaureate programs in nursing<sup>ab</sup> or cytotechnology<sup>c</sup>.

<sup>a</sup>College Misericordia, Dallas, Pennsylvania

<sup>b</sup>Thomas Jefferson University, Philadelphia, Pennsylvania

<sup>c</sup>State University of New York, Upstate Medical University, Syracuse, New York

### **Graduation Requirements**

ENGL 050 - Critical and Analytical Reading (see page 230)

### **Core Courses:**

COMM 107 - Speech Communication

ENGL 101 - College Writing I

ENGL 102 - College Writing II

IT 105 - PC Office Applications

IDS 101 - The First-Year Seminar

MATH 102 - College Algebra<sup>1</sup>

or MATH 111 - College Mathematics<sup>1</sup>

PHED 105 - Wellness and Fitness

### **Distribution Courses:**

Arts and Humanities Elective<sup>2</sup>

BIOL 113 - General Biology I

PHIL 101 - Introduction to Philosophy

PSYC 101 - General Psychology

PSYC 200 - Developmental Psychology

### **Curriculum Courses:**

BIOL 105 - Human Anatomy and Physiology I

BIOL 106 - Human Anatomy and Physiology II  
BIOL 114 - General Biology II<sup>4</sup>  
or BIOL 240 - Bioethics<sup>4</sup>  
BIOL 210 - Nutrition  
BIOL 211 - Microbiology  
CHEM 105 - General Chemistry I  
or HIST 101 - The Making of the Modern World  
or HIST 109 - U.S. History I  
CHEM 106 - General Chemistry II  
or HIST 102 - World Civilization  
or HIST 110 - U.S. History II  
EXPL - Experiential Learning<sup>3</sup>  
MATH 205 - Statistics  
PSYC 314 - Psychopathology  
SOC 101 - Introduction to Sociology

**Free Elective Courses:** Sufficient free electives must be taken to ensure that the student has at least 68 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

#### Footnotes:

<sup>1</sup>Students who do not have a sufficient math background will need to take MATH 101 prior to MATH 102. These students may require an extra semester or summer session to complete this degree.

<sup>2</sup>Please refer to page 60 for a list of courses fulfilling the distribution requirements. Please check with your adviser for the articulating school requirements.

<sup>3</sup>Students must complete a minimum of one credit of EXPL during the summer or in their third or fourth semester.

<sup>4</sup>Thomas Jefferson University requires BIOL 240, Misericordia University requires BIOL 114.

Note: Students who successfully complete this curriculum with a 2.75 GPA can formally matriculate at Misericordia University in four semesters. They will earn an additional 66 credits at Misericordia University. For further information on academic advising, students should contact Misericordia University.

The course requirements for the AS degree in allied health from Keystone College and the course requirements for the outgoing transfer agreement with Misericordia University are not the same.

It is important to note that these two programs are not equivalent.

# **Allied Health - Occupational Therapy/Respiratory Care Emphasis Associate in Science**

Curriculum Coordinator: Dorothy Anthony, DC, DACBN, Instructor

Keystone College offers a number of pre-professional tracks in the allied health disciplines including; nursing<sup>a,b</sup>, occupational therapy<sup>b</sup>, radiologic technology and diagnostic imaging<sup>a,b,c</sup>, radiation therapy<sup>c</sup>, respiratory care<sup>c</sup>, cardiac perfusion<sup>c</sup>, medical technology<sup>b,c</sup> and cytotechnology<sup>c</sup>. These programs provide the first two years of study required for the respective disciplines. After successful completion of all required coursework and EXPL hours of study at Keystone College, the student will have the opportunity to transfer credits to articulating schools as listed for completion of studies within the discipline. The completion phase is usually an additional two years of study at the articulating university. Students in good academic standing will have all credits taken at Keystone College transfer into their respective articulating programs. Students successfully completing all graduation requirements will receive an associate in science.

Occupational therapists use goal-directed activities to promote functional performance in individuals affected by physical injury, birth defects, aging, or emotional or developmental problems. Respiratory therapists perform studies of pulmonary function in patients, aid in pulmonary treatment and exercise, and assist the physician in treating patients with pulmonary disease. This emphasis prepares students for entry into articulating schools, Thomas Jefferson University and SUNY Upstate Medical University respectively. These are both 2+2 BS programs.

<sup>a</sup>College Misericordia, Dallas, Pennsylvania

<sup>b</sup>Thomas Jefferson University, Philadelphia, Pennsylvania

<sup>c</sup>State University of New York, Upstate Medical University, Syracuse, New York

## **Graduation Requirements**

ENGL 050 - Critical and Analytical Reading (see page 230)

## **Core Courses:**

COMM 107 - Speech Communication

ENGL 101 - College Writing I

ENGL 102 - College Writing II

IT 105 - PC Office Applications

IDS 101 - The First-Year Seminar

MATH - Basic Algebra or a higher-level MATH course<sup>1</sup>

PHED 105 - Wellness and Fitness

## **Distribution Course:**

Arts and Humanities Elective<sup>2</sup>

Arts and Humanities Elective<sup>2</sup>

BIOL 113 - General Biology I

BIOL 114 - General Biology II

PSYC 101 - General Psychology

SOCI 101 - Introduction to Sociology

## **Curriculum Courses:**

ANTH 101 - Introduction to Cultural Anthropology

BIOL 105 - Human Anatomy and Physiology I  
BIOL 106 - Human Anatomy and Physiology II  
BIOL 115 - Medical Terminology  
EXPL - Experiential Learning<sup>3</sup>  
MATH 102 - College Algebra<sup>1</sup>  
MATH 205 - Statistics  
PSYC 200 - Developmental Psychology  
    or 200-level or higher PSYC course  
PSYC 314 - Psychopathology

**Free Elective Courses:** Sufficient free electives must be taken to ensure the student has at least 64 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>Students who do not have a sufficient math background will need to take MATH 101 prior to MATH 102. These students may require an extra semester or summer session to complete this degree.

<sup>2</sup>To be chosen from Philosophy 101, 102, English 201, 202, 203, or 204.

<sup>3</sup>Students must earn a minimum of one credit of EXPL during the summer or in their third or fourth semester.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Allied Health - Radiotherapy/Medical Imaging/Cardiac Perfusion Emphasis Associate in Science**

Curriculum Coordinator: Dorothy Anthony, DC, DACBN, Instructor

Keystone College offers a number of pre-professional tracks in the allied health disciplines including; nursing<sup>a,b</sup>, occupational therapy<sup>b</sup>, radiologic technology and diagnostic imaging<sup>a,b,c</sup>, radiation therapy<sup>c</sup>, respiratory care<sup>c</sup>, cardiac perfusion<sup>c</sup>, medical technology<sup>b,c</sup> and cytotechnology<sup>c</sup>. These programs provide the first two years of study required for the respective disciplines. After successful completion of all required coursework and EXPL hours of study at Keystone College, the student will have the opportunity to transfer credits to articulating schools as listed for completion of studies within the discipline. The completion phase is usually an additional two years of study at the articulating university.

Students in good academic standing will have all credits taken at Keystone College transfer into their respective articulating programs. Students successfully completing all graduation requirements will receive an associate in science.

Radiotherapists assist physicians in treating patients with malignancies. Radiotherapists use targeted radiation to shrink or destroy malignancies. Medical imaging technologists assist in diagnosis and treatment of medical conditions using x-ray imaging, CAT scanning, Medical Ultrasound, MRI and nuclear medicine. Cardiac perfusion technologists are operating room specialists who conduct cardiopulmonary bypass during open heart surgery. This track prepares students for entry into these 2+2 articulation programs at Thomas Jefferson University, and SUNY Upstate Medical College.

<sup>a</sup>College Misericordia, Dallas, Pennsylvania

<sup>b</sup>Thomas Jefferson University, Philadelphia, Pennsylvania

<sup>c</sup>State University of New York, Upstate Medical University, Syracuse, New York

## **Graduation Requirements**

ENGL 050 - Critical and Analytical Reading (see page 230)

### **Core Courses:**

COMM 107 - Speech Communication

ENGL 101 - College Writing I

ENGL 102 - College Writing II

IT 105 - PC Office Applications

IDS 101 - The First-Year Seminar

MATH - Basic Algebra or a higher-level MATH course<sup>1</sup>

PHED 105 - Wellness and Fitness

### **Distribution Courses:**

Arts and Humanities Elective<sup>2</sup>

Arts and Humanities Elective<sup>2</sup>

BIOL 105 - Human Anatomy and Physiology I

BIOL 106 - Human Anatomy and Physiology II

PSYC 101 - General Psychology

Social and Behavioral Sciences Elective<sup>3</sup>

## Curriculum Courses:

BIOL 113 - General Biology I  
BIOL 115 - Medical Terminology  
EXPL - Experiential Learning<sup>4</sup>  
MATH 102 - College Algebra<sup>1,5</sup>  
MATH 113 - Pre-Calculus<sup>5</sup>  
    or MATH 225 - Calculus I  
MATH 205 - Statistics  
PHYS 200 - General Physics I  
PHYS 205 - General Physics II  
POSC 101 - American National Government  
    or BIOL 114 - General Biology II<sup>6</sup>

**Free Elective Courses:** Sufficient free electives must be taken to ensure the student has at least 65 credits for graduation<sup>7</sup>.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

## Footnotes:

<sup>1</sup>Students are expected to take MATH 102 or MATH 113 in their first semester. Students who are not prepared to do so will require an extra semester or summer session to complete this degree.

<sup>2</sup>To be chosen from PHIL 101, 102, ENGL 201, 202, 203, or 204, HIST 101 or 102. College Misericordia requires HIST 101 and 102. Thomas Jefferson requires one literature course. The academic adviser assists with course selection.

<sup>3</sup>Please refer to page 69 for a list of courses fulfilling the distribution requirements.

<sup>4</sup>Students must complete a minimum of one credit of EXPL during the summer or in their third or fourth semester.

<sup>5</sup>Students starting their math courses with Pre-Calculus (MATH 113) must take sufficient free electives to ensure that they will have 65 credits for graduation.

<sup>6</sup>Students should check with articulating institution for required courses.

<sup>7</sup>Misericordia University requires students to take SOCI 101.

Note: Students who successfully complete this curriculum with a 2.50 GPA can formally matriculate at Misericordia University in five semesters and two 7-week internships. The final semester may be part-time. Students will earn an additional 68 credits at College Misericordia. The course requirements for the AS degree in Allied Health from Keystone College and the other course requirements for the outgoing transfer with Misericordia University are not the same.

It is important to note that these two programs are not equivalent. Students pursuing the AS degree in allied health with a concentration in medical imaging from Keystone College who are also interested in transferring to Misericordia University, will need to complete additional course requirements in order to be accepted into the program at Misericordia University. The additional courses are HIST 102 and HIST 102 or HIST 109 and HIST 110.

For further information on academic advising, students should contact Misericordia University.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Art Associate in Fine Arts**

Curriculum Coordinator: Ward Roe, Professor

The curriculum in art is a complete, two-year foundation program which prepares students to continue in either of Keystone College's art programs, or for transfer into other colleges, art schools, and universities offering career programs in a wide spectrum of visual art fields. These include architecture, photography, art education, art therapy, painting, sculpture, printmaking, crafts, fashion, fabric, industrial, toy, and graphic design. As an individualized diagnostic program, the curriculum can effectively help students decide where their futures in art lie and provide guidance in choosing an appropriate transfer institution.

Applicants must present a portfolio, be interviewed by a member of the Keystone College Division of Fine Arts, and have a high school art teacher's recommendation. Most courses listed (note the prerequisites) are open to all students at Keystone. Students meeting all graduation requirements receive an associate in fine arts degree.

## **Graduation Requirements**

ENGL 050 - Critical and Analytical Reading (see page 230)

## **Core Courses:**

ART 114 - Electronic Media in the Arts  
COMM 107 - Speech Communication  
ENGL 101 - College Writing I  
ENGL 102 - College Writing II  
IDS 101 - The First-Year Seminar  
MATH - Basic Algebra or a higher-level MATH course  
PHED 105 - Wellness and Fitness

## **Distribution Courses:**

ART 101 - Art History Survey I  
ART 102 - Art History Survey II  
Math/Science Elective <sup>1,2</sup>  
Social and Behavioral Sciences Elective <sup>1</sup>

## **Curriculum Courses:**

ART 103 - Color Theory  
ART 105 - Drawing and Composition I  
ART 107 - Figure Drawing I  
ART 109 - Two-Dimensional Design  
ART 110 - Three-Dimensional Design  
ART 113 - Portfolio Preparation  
ART 205 - Drawing and Composition II  
ART 207 - Figure Drawing II  
ART 225 - Fundamentals of Sculpture  
Curricular Elective - Art Studio Course  
Curricular Elective - Art Studio Course

Curricular Elective - Art Studio Course

Curricular Elective - Art Studio Course

Curricular Elective - Art Studio Course

**Studio Courses May Be Selected From the Following:**

ART 209 - Fundamentals of Graphic Design

ART 210 - Fundamentals of Crafts

ART 215 - Fundamentals of Ceramics

ART 221 - Fundamentals of Photography

ART 228 - Fundamentals of Painting

ART 231 - Fundamentals Printmaking

ART 309 - Graphic Design II

ART 315 - Ceramics II

ART 321 - Photography II

ART 325 - Sculpture II

ART 328 - Painting II

ART 330 - Special Topics in Art

ART 331 - Printmaking II

ART 340 - Color Photography

**Free Elective Courses:** Sufficient free electives must be taken to ensure the student has at least 66.5 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>Please refer to page 60 for a list of courses fulfilling the distribution requirements.

<sup>2</sup>BIOL 101 or BIOL 200 (Newsworthy Topics in Biology or Biological Dimensions of Human Sexuality) is recommended for students interested in a baccalaureate degree from Keystone College.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Business Administration Associate in Science**

Curriculum Coordinator: Ken Zula, Ph.D., Assistant Professor

In today's economic environment, every organization has to run as a successful business – whether the organization is a manufacturer, non-profit organization, sports team, retail store, or a college campus. Recognizing the wide range of career opportunities open to students, the business curriculum at Keystone College offers students many choices and great flexibility. Business administration provides the foundation needed by students who intend to eventually earn BS and MBA degrees. Also, it is an ideal choice for students who intend to be entrepreneurs or begin careers after associate degree graduation. Students meeting all graduation requirements receive an associate in science.

## **Graduation Requirements**

ENGL 050 - Critical and Analytical Reading (see page 230)

## **Core Courses:**

COMM 107 - Speech Communication  
ENGL 101 - College Writing I  
ENGL 102 - College Writing II  
IT 105 - PC Office Applications  
IDS 101 - The First-Year Seminar  
MATH 102 - College Algebra or higher-level MATH course  
PHED 105 - Wellness and Fitness

## **Distribution Courses:**

Arts and Humanities Elective<sup>1</sup>  
Arts and Humanities Elective<sup>1</sup>  
ECON 201 - Principles of Economics I  
ECON 202 - Principles of Economics II  
MATH 205 - Statistics  
Science Elective - Laboratory Course<sup>1</sup>

## **Curriculum Courses:**

ACCT 108 - Financial Accounting  
BUSN 101 - Introduction to Business  
BUSN 201 - Principles of Management  
BUSN 212 - Written Communication  
BUSN 251 - Bridge Experience in Business  
Curricular Elective<sup>2</sup>  
Curricular Elective<sup>2</sup>  
Curricular Elective<sup>2</sup>

**Free Elective Courses:** Sufficient free electives must be taken to ensure the student has at least 61 credits required for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>Please refer to page 60-61 for a list of courses fulfilling the distribution requirements.

<sup>2</sup>To be chosen from the following disciplines: ACCT, BUSN, EXPL, HRM, IT, LEAD, MATH, PSYC, SRM, or HOSP, or any course approved by the adviser.

Students are expected to have a real-world experience during the associate degree program. EXPL fulfills this requirement. Other real-world experiences may be used to fulfill this requirement with the approval of the adviser.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# Communications Associate in Arts

Curriculum Coordinator: Dawn Middleton-Paradise, Assistant Professor

The communications curriculum is designed to provide students with a foundation that will prepare them to continue baccalaureate studies in the bachelor of arts: communication arts and humanities degree program.

The communications curriculum is also an appropriate choice for students who wish to transfer to colleges and universities offering baccalaureate programs in corporate communications, English, journalism, creative writing, and digital media and/or radio broadcasting.

The goals of the communications program are to prepare students for a variety of careers in the communications field within the context of a liberal arts tradition; to develop students' interpersonal, oral and written communication skills; to help students explore career options through experiential learning, and to challenge students to think critically and creatively.

Students selecting this curriculum will work closely with faculty advisers to develop course plans designed to meet the requirements of their specific area of interest and to assess their aptitude and progress. All communication majors are required to complete a minimum of three credits of experiential learning.

In addition, toward the end of the sophomore year, all students in this major must present a portfolio of their best work to a faculty panel for evaluation. The portfolio also serves as a major consideration towards the student's acceptance into the bachelor of arts: communication arts and humanities degree program.

Further consideration for acceptance into the bachelor's program will be contingent upon a successful sophomore year review conducted by the division.

Students meeting all graduation requirements receive an associate in arts degree.

## Graduation Requirements

ENGL 050 - Critical and Analytical Reading (see page 230)

## Core Courses:

COMM 107 - Speech Communication

ENGL 101 - College Writing I

ENGL 102 - College Writing II

IT 105 - PC Office Applications<sup>4</sup>

or ART 114 - Electronic Media in the Arts<sup>4</sup>

IDS 101 - The First Year Seminar

MATH - Basic Algebra or higher-level MATH course

PHED 105 - Wellness and Fitness

## Distribution Courses:

COMM 104 - Interpersonal Communication

COMM 105 - Mass Communication

ENGL 200-level Literature Elective<sup>1</sup>

ENGL 200-level Literature Elective<sup>1</sup>

Math/Science Elective<sup>2</sup>

Social and Behavioral Science Elective<sup>2</sup>  
Social and Behavioral Science Elective<sup>2</sup>  
Science Elective - Laboratory Course<sup>2</sup>

### **Curriculum Requirements:**

COMM 207 - Professional Speech

EXPL - Experiential Learning<sup>3</sup>

**Curricular Electives:** Students must select six of the following courses (a minimum of 18 credits), at least three of which are the 200-level or higher and one of which must be an Arts and Humanities or Social and Behavioral Science elective. Students are responsible for meeting any prerequisite requirements for course selections below.

ANTH 101 - Introduction to Cultural Anthropology

ART 109 - Two-Dimensional Design

ART 114 - Electronic Media in the Arts (suggested for ART emphasis)

ART 209 - Fundamentals of Graphic Design

ART 221 - Fundamentals of Photography

BUSN 201 - Principles of Management

BUSN 202 - Marketing

BUSN 212 - Written Communication

BUSN 215 - Advertising

BUSN 220 - Sales

COMM 220 - Public Relations

COMM 230 - Introduction to Radio Production

COMM 235 - Digital Video Production

ENGL 201 - American Literature I

ENGL 202 - American Literature II

ENGL 203 - Western World Literature I

ENGL 204 - Western World Literature II

ENGL 209 - Introduction to Journalism

ENGL 210 - Feature Writing

ENGL 211 - Creative Writing

ENGL 220 - Introduction to Poetry

ENGL 221 - Introduction to the Novel

ENGL 222 - Introduction to Dramatic Literature

FILM 110 - Introduction to Cinema

IT 120 - Web Programming I

IT 125 - Web Programming II

IT 200 - Intermediate Office Applications

LEAD 110 - Foundation of Leadership

LEAD 215 - Team Building

MUSC 101 - Introduction to Music

PHIL 101 - Introduction to Philosophy I

PHIL 102 - Introduction to Philosophy II

SPAN 101 - Elementary Spanish I

SPAN 102 - Elementary Spanish II

THEA 104 - Introduction to Theatre

THEA 105 - Acting I: The Basics of Performance

THEA 204 - Survey of Technical Theatre

THEA 205 - Acting II: Techniques and Styles

**Free Elective Courses:** Sufficient free electives must be taken to ensure the student has at least 67 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>To be chosen from ENGL 201, 202, 203, 204, 220, 221, or 222.

<sup>2</sup>Please refer to pages 60 and 61 for a list of courses fulfilling the distribution requirements.

<sup>3</sup>Students must earn a minimum of three credits of EXPL.

<sup>4</sup>In addition, students beginning the bachelor of arts: communication arts and humanities curriculum who have not yet completed IT 105, and who identify photography, graphic design, or photo/graphics as an emphasis, should take ART 114 instead of IT 105 as both a core requirement and part of the 18-credit emphasis. If a student has already completed IT 105, he/she will complete ART 114 in addition to IT 105.

The academic advisor assists the student in planning his/her curriculum and in pre-registration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Criminal Justice Associate in Science**

Curriculum Coordinator: Stacey Wyland, Assistant Professor

The criminal justice curriculum, which is designed for transfer into a baccalaureate degree program, will provide students with a solid foundation in criminal justice and the liberal arts. Students successfully completing this degree may continue at Keystone College and earn a bachelor of science in criminal justice. Students meeting all graduation requirements receive an associate in science degree.

## **Graduation Requirements**

ENGL 050 - Critical and Analytical Reading (see page 230)

## **Core Courses:**

COMM 107 - Speech Communication  
ENGL 101 - College Writing I  
ENGL 102 - College Writing II  
IT 105 - PC Office Applications  
IDS 101 - The First Year Seminar  
MATH - Basic Algebra or higher-level MATH course  
PHED 105 - Wellness and Fitness

## **Distribution Courses:**

Arts and Humanities Elective<sup>4</sup>  
Arts and Humanities Elective<sup>4,6</sup>  
PSYC 101 - General Psychology  
PSYC 202 - Adolescence and Adulthood  
Mathematics Elective<sup>1</sup>  
Science Elective - Laboratory Course<sup>4</sup>

## **Curriculum Courses:**

CJ 102 - Introduction to Criminal Justice  
CJ 110 - Introduction to Policing  
CJ 115 - Survey of Corrections  
CJ 201 - Criminology  
CJ 210 - Juvenile Delinquency  
CJ 223 - Field Experience I  
or Curricular Elective<sup>2,3</sup>  
POSC 201 - State and Local Government  
POSC 310 - Public Policy  
SOC 101 - Introduction to Sociology

**Free Elective Courses:** Sufficient free electives must be taken to ensure that the student has at least 63 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>Recommended: MATH 102 or 111.

<sup>2</sup>Internships are limited to those students with a 3.0 GPA in their major and recommendation of curriculum coordinator.

<sup>3</sup>Students who are eligible for a field experience must attend field experience preparation workshop (CJ 223P) before their field experience (CJ 223).

<sup>4</sup>Please refer to pages 60 and 61 for a list of courses fulfilling the distribution requirements.

<sup>5</sup>Students considering the bachelor's degree in criminal justice are strongly encouraged to select courses in a respective minor area or a 300-400 level CJ course.

<sup>6</sup>Students intending to continue the criminal justice bachelor's of science program should consider taking a 200-level arts and humanities course.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

Not every course is offered every semester at every location. Course offerings are dependent on enrollment.

# **Culinary Arts Associate in Applied Science**

Curriculum Coordinator: Chef Melodie Jordan, Assistant Professor

The culinary arts major is based on the functions and skills required in the food service industry. Designed to be a basic building block for any career goal related to foods, students will be exposed to classical French and American techniques. Students will follow a block scheduling format to further enhance their education and provide additional hands-on experience. Upon completion of this program, the student is required to take and pass the NOCTI examination designated for their curriculum. Students are required to participate in all culinary arts functions. Students meeting all graduation requirements receive an associate in applied science.

Upon enrolling in CULN 101A, students will be charged for a professional knife kit (\$250) and uniform package (\$250). In the student's third semester and upon enrolling in CULN 230, students will be charged for a server and kitchen uniform package (\$250). Enrollees are also required to purchase non-skid black leather lace-up shoes. These costs are in addition to other required fees.

## **Graduation Requirements**

ENGL 050 - Critical and Analytical Reading (see page 230)

## **Core Courses:**

COMM 107 - Speech Communication  
ENGL 101 - College Writing I  
ENGL 102 - College Writing II  
IT 105 - PC Office Applications  
IDS 101 - The First-Year Seminar  
MATH - Basic Algebra or a higher-level MATH course  
PHED 105 - Wellness and Fitness

## **Distribution Courses:**

Distribution Elective<sup>4</sup>

## **Curriculum Courses:**

BUSN 212 - Written Communication  
or COMM 104 - Interpersonal Communication  
CULN 100 - Culinary Math  
CULN 101 A\* - Stocks, Sauces, and Skills  
CULN 101 B\* - Meat and Fish Fabrication  
CULN 101 C\* - American Cuisine  
CULN 101 D\* - Cuisines of the World  
CULN 101 E\* - Introduction to Baking  
CULN 101 F\* - Service Techniques and Skills  
CULN 101 H\* - Breakfast Cookery Seminar  
CULN 103 - Introduction to Culinary Management  
CULN 107 - Garde Manger  
CULN 202 - Bar and Beverage Management  
CULN 203 - Cakes, Tortes, and Desserts

CULN 210\* - Catering<sup>1</sup>  
CULN 223P - Field Experience Prep<sup>4</sup>  
CULN 223 - Field Experience<sup>4</sup>  
CULN 230 - Restaurant Operations  
CULN 236 - Advanced Restaurant Operations  
CULN 290 - NOCTI Food Production and Service Examination<sup>2</sup>  
BIOL 210 - Nutrition  
HOSP 104 - Food and Labor Cost Control  
HOSP 108 - Applied Food Service Sanitation  
HOSP 225 - Menu Planning and Purchasing

\*Students enrolled in these courses must be available to participate in events when not in class.

**Free Elective Courses:** Sufficient free electives must be taken to ensure the student has at least 66.5 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

\*Students enrolled in these courses must be available to participate in events when not in class.

**Footnotes:**

<sup>1</sup>Students enrolled in CULN 210 may have to be available for some weekends to organize, serve, and cook for functions.

<sup>2</sup>In order for students to graduate this curriculum, they must enroll in and pass the NOCTI examination (only offered in the spring semesters, CULN 290). Students must have completed 3 semesters in culinary arts at Keystone College before enrolling.

<sup>3</sup>Please refer to page 60 for a list of courses fulfilling the distribution requirements.

<sup>4</sup>Students must attend CULN 223P in their second semester and must complete 400 hours of approved field experience after their sophomore year.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# Early Childhood Education Associate in Science

Curriculum Coordinator: Carol Fontana, Assistant Professor

Keystone College offers an associate in science in early childhood education which prepares students to work with young children (newborn-eight years) in a variety of settings, including schools, day care centers, Head Start, nursery schools, homes, hospitals, social service agencies, and early intervention programs for children with special needs. Graduates of the associate in science program are prepared for entry-level positions or to continue in Keystone College's baccalaureate degree program in early childhood or elementary education.

Field/laboratory experiences are required each semester and are arranged by the Field Coordinator for Education.

Current criminal history, child abuse clearances, FBI clearances, and a health appraisal, including an annual TB screening, are required prior to engaging in fieldwork. Students are responsible for obtaining clearances on an annual basis, and copies must be on file in the education office.

Students meeting all graduation requirements receive an associate in science degree.

**Education students are required to pay a curriculum lab fee of \$70 each semester.**

**Weekender students are required to pay a \$40 curriculum lab fee each trimester.**

While college catalogs are recognized as contractual arrangements, they are subject to changes in state, federal, and program requirements.

## Graduation Requirements:

ENGL 050 - Critical and Analytical Reading (see page 230)

## Core Courses:

COMM 107 - Speech Communication

ENGL 101 - College Writing I

ENGL 102 - College Writing II

IT 105 - PC Office Applications

IDS 101 - The First-Year Seminar

MATH 101 - Basic Algebra or higher-level MATH course<sup>1</sup>

PHED 105 - Wellness and Fitness

## Distribution Courses:

Arts and Humanities Elective<sup>2</sup>

Arts and Humanities Elective<sup>2</sup>

Biology Laboratory Elective<sup>3</sup>

Math/Science Elective<sup>1</sup>

PSYC 101 - General Psychology

PSYC 201- Child Psychology

## Curriculum Courses:

ECE 101 - Introduction to Early Childhood Education<sup>4</sup>

ECE 102 - Guiding Play and Learning<sup>4</sup>

ECE 201 - Curriculum and Program Planning (birth to 3 years)<sup>4</sup>

ECE 202 - Curriculum and Program Planning (3 to 8 years)<sup>4</sup>

ECE 223 - Community Based Early Childhood Field Experiences<sup>4</sup>  
ECE 250 - Seminar in Early Childhood Education  
Early Childhood Education Elective<sup>5</sup>  
Early Childhood Education Elective<sup>5</sup>  
EDUC 216 - Child, Family, and Community  
SOC1 101 - Introduction to Sociology

**Free Elective Courses:** Sufficient free electives must be taken to ensure the student has at least 66 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>MATH 111 and MATH 102 are recommended for students considering transferring into the baccalaureate degree program.

<sup>2</sup>Please see page 60 for a list of courses fulfilling this requirement.

<sup>3</sup>BIOL 101/110 or 102/111 are recommended.

<sup>4</sup>Field and Lab Experiences are required each of the four semesters and are generally scheduled Monday through Friday 8 a.m. to 5 p.m. during typical working hours.

<sup>5</sup>To be chosen from: ECE 220, ECE 235, ECE 350, EDUC 201, EDUC 211, ENGL 328, PSYC 225, or a course approved by the academic adviser.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

Not every course is offered every semester at every location. Course offerings are dependent on enrollment.

Students should meet with advisers each semester to plan course schedules.

# **Environmental Studies Associate in Arts**

Curriculum Coordinator: Robert Cook, Ph.D., Associate Professor

The environmental resource management curriculum is primarily concerned with the relationships of people and their societal institutions with the natural world. Students successfully completing this curriculum are guaranteed acceptance at State University of New York - Syracuse. The environmental studies curriculum also transfers to a variety of other institutions. Students meeting all graduation requirements receive an associate in arts.

Bachelor's degrees lead to the following emphases: land use planning, biological science application, information and technology, policy and management, and environmental communications.

## **Graduation Requirements**

ENGL 050 - Critical and Analytical Reading (see page 230)

### **Core Courses:**

COMM 107 - Speech Communication  
ENGL 101 - College Writing I  
ENGL 102 - College Writing II  
IT 105 - PC Office Applications  
IDS 101 - The First-Year Seminar  
MATH - Basic Algebra or a higher-level MATH course<sup>1</sup>  
PHED 105 - Wellness and Fitness

### **Distribution Courses:**

Arts and Humanities Elective<sup>2</sup>  
BIOL 113 - General Biology I  
BIOL 114 - General Biology II  
ECON 201 - Principles of Economics I  
    or ECON 202 - Principles of Economics II  
HIST 102 - Western Civilization  
HIST 109 - United States History I  
    or HIST 110 - United States History II  
MATH 225 - Calculus I<sup>1</sup>  
Social and Behavioral Sciences Elective

### **Curriculum Courses:**

BIOL 108/109 - Introduction to Field Biology<sup>3</sup>  
BIOL 109C - Horticulture  
BIOL 214 - General Ecology  
CHEM 105 - General Chemistry I  
CHEM 106 - General Chemistry II  
    or PHYS 200 - General Physics I  
EXPL - Experiential Learning<sup>3</sup>  
ENVT 225 - Environmental Policy and Management  
PHSC 201 - Physical Geology  
POSC 101 - American National Government

or POSC 201 - State and Local Government

**Free Elective Courses:** Sufficient free electives must be taken to ensure the student has at least 70 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>Students who do not have a sufficient math background must take MATH 113 prior to MATH 225 and may require an additional semester or summer session.

<sup>2</sup>Any ART course or MUSC 101.

<sup>3</sup>Two additional credits of Field Biology (BIOL 108/109) are required.

<sup>4</sup>Students must earn a minimum of one credit of EXPL.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# Forestry Resource Management Associate in Arts

Curriculum Coordinator: Robert Cook, Ph.D., Associate Professor

The forestry resource management curriculum prepares students for the management of forest-related resources and their environments for human benefit. Students successfully completing this curriculum at Keystone College are guaranteed acceptance at State University of New York - Syracuse. The forestry resource management curriculum also transfers to a variety of other institutions. Students meeting all graduation requirements receive an associate in arts. Bachelor's degrees lead to the following emphases: forestry, water resource management, wood products, and recreation management.

## Graduation Requirements

ENGL 050 - Critical and Analytical Reading (see page 230)

## Core Courses:

COMM 107 - Speech Communication

ENGL 101 - College Writing I

ENGL 102 - College Writing II

IT 105 - PC Office Applications

IDS 101 - The First-Year Seminar

MATH - Basic Algebra or a higher-level MATH course<sup>1</sup>

PHED 105 - Wellness and Fitness

## Distribution Courses:

Arts and Humanities Elective<sup>2</sup>

Arts and Humanities Elective<sup>2</sup>

BIOL 113 - General Biology I

BIOL 114 - General Biology II

ECON 201 - Principles of Economics I

or ECON 202 - Principles of Economics II

HIST 102 - Western Civilization

HIST 109 - United States History I

or HIST 110 - United States History II

Social and Behavioral Sciences Elective<sup>3</sup>

## Curriculum Courses:

BIOL 214 - Introductory Ecology

CHEM 105 - General Chemistry I

CHEM 106 - General Chemistry II

Curricular Elective<sup>5</sup>

Curricular Elective<sup>5</sup>

EXPL - Experiential Learning<sup>4</sup>

MATH 205 - Statistics

MATH 225 - Calculus I<sup>1</sup>

PHYS 200 - General Physics I

PHYS 205 - General Physics II

**Free Elective Courses:** Sufficient free electives must be taken to ensure the student has at least 69 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>Students are expected to begin with MATH 225 - Calculus I. Students with insufficient math background may have to take MATH 113 prior to MATH 225, which may require an extra semester or summer session to complete this degree.

<sup>2</sup>To be chosen from: any ART course, ENGL 220, or MUSC 101.

<sup>3</sup>To be chosen from: ANTH 101, ANTH 212, or RELG 206.

<sup>4</sup>Students must earn a minimum of one credit of EXPL.

<sup>5</sup>Two courses to be chosen from the math or physical science disciplines or BUSN 201. Three credits of Field Biology (BIOL 108/109) are recommended.

Please refer to page 60 for a list of courses fulfilling the distribution requirements.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# Information Technology Associate in Applied Science

Curriculum Coordinator: Stephen R. Cheskiewicz, M.S.Ed., Instructor

The associate degree in information technology (IT) is designed for individuals interested in professional careers in the IT field. Student instruction is centered on database management, programming concepts, and networking fundamentals in addition to other relevant courses to prepare graduates for today's ever-changing business environment.

Students completing the associate degree may continue at Keystone College and earn a bachelor of science degree in information technology with a specialization in networking engineering or business information systems.

Students meeting all graduation requirements receive an associate in applied science.

## Graduation Requirements

ENGL 050 - Critical and Analytical Reading (see page 230)

## Core Courses:

COMM 107 - Speech Communication

ENGL 101 - College Writing I

ENGL 102 - College Writing II

IT 101 - Introduction to Information Technology

IDS 101 - The First-Year Seminar

MATH 101 - Basic Algebra or a higher-level MATH course

PHED 105 - Wellness and Fitness

## Distribution Courses:

Arts and Humanities Elective<sup>1</sup>

MATH 102 - College Algebra or higher-level MATH course

MATH 113 - Pre-Calculus or MATH 310 - Discrete Mathematics

Science Elective - Laboratory Course<sup>1</sup>

Social and Behavioral Sciences Elective<sup>1</sup>

## Curriculum Courses:

ACCT 110 - Survey of Accounting

Curricular Elective<sup>2</sup>

IT 110 - Introduction to Programming

or IT 225 - Spreadsheets and Databases

IT 120 - Web Programming I

IT 125 - Web Programming II

IT 205 - Database Management Systems I

IT 206 - Database Management Systems II

IT 250 Networking I

IT 251 Networking II

**Free Elective Courses:** Sufficient free electives must be taken to ensure the student has at least 62 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>Please refer to page 60 for a list of courses fulfilling the distribution requirements.

<sup>2</sup>To be chosen from the IT discipline, or a course approved by the academic adviser.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# Landscape Architecture Associate in Arts

Curriculum Coordinator: Robert Cook, Ph.D., Associate Professor

The landscape architecture curriculum prepares students for transfer to a baccalaureate institution where they will acquire the skills and knowledge necessary for landscape architecture. Students successfully completing the landscape architecture curriculum are guaranteed acceptance at State University of New York - Syracuse.

This curriculum also transfers to a variety of other institutions. Students meeting all graduation requirements receive an associate in arts.

Bachelor's degrees lead to the following emphases: design, planning, and design history and theory.

## Graduation Requirements

ENGL 050 - Critical and Analytical Reading (see page 230)

## Core Courses:

COMM 107 - Speech Communication

ENGL 101 - College Writing I

ENGL 102 - College Writing II

IDS 101 - The First-Year Seminar

IT 105 - PC Office Applications

MATH - Basic Algebra or a higher-level MATH course<sup>1</sup>

PHED 105 - Wellness and Fitness

## Distribution Courses:

ART 105 - Drawing and Composition I

or ART 107 - Figure Drawing I

ART 109 - Two-Dimensional Design

or ART 110 - Three-Dimensional Design and Materials

BIOL 109C - Horticulture

BIOL 113 - General Biology I

BIOL 114 - General Biology II

PHSC 108 - Geology

PSYC 101 - General Psychology

or SOCI 101 - Introduction to Sociology

Social and Behavioral Sciences Elective<sup>2</sup>

## Curriculum Courses:

ART 101 - Art History Survey I

or ART 102 - Art History Survey II

BIOL 108/109 - Introduction to Field Biology<sup>3</sup>

BIOL 214 - Introductory Ecology

Curricular Elective - Science<sup>5</sup>

ENVT 210- GIS/GPS

EXPL - Experiential Learning<sup>4</sup>

HIST 109 - United States History I

or HIST 110 - United States History II

MATH 113 - Pre-Calculus  
or MATH 205 - Statistics

**Free Elective Courses:** Sufficient free electives must be taken to ensure the student has at least 67 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>Students are expected to begin with MATH 113 or 205. Students with insufficient math background may have to take MATH 102 prior to MATH 113 or 205, which may require an extra semester or summer session to complete this degree.

<sup>2</sup>To be chosen from ANTH 101, ANTH 212, or RELG 206.

<sup>3</sup>Must total at least two credits.

<sup>4</sup>Students must earn a minimum of one credit of co-op.

<sup>5</sup>To be chosen from the science discipline. Students must earn a minimum of three credits. See page 60 for a list of courses fulfilling the science requirements.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# Liberal Studies Associate in Arts

Curriculum Coordinator: Sara White, Instructor

The liberal studies curriculum at Keystone College is designed to parallel the first two years of a baccalaureate program. While this program emphasizes flexibility, it also allows students the opportunity to choose an area of concentration in English, history, political science, or sociology. Students meeting all graduation requirements receive an associate in arts degree.

## Graduation Requirements

ENGL 050 - Critical and Analytical Reading (see page 230)

### Core Courses:

COMM 107 - Speech Communication

ENGL 101 - College Writing I

ENGL 102 - College Writing II

IT 105 - PC Office Applications

IDS 101 - The First-Year Seminar

MATH - Basic Algebra or a higher-level MATH course

PHED 105 - Wellness and Fitness

### Distribution Courses:

Arts and Humanities Elective<sup>1</sup>

Arts and Humanities Elective<sup>1</sup>

Distribution Elective<sup>1</sup>

Distribution Elective<sup>1</sup>

Distribution Elective<sup>1</sup>

Math/Science Elective<sup>1</sup>

Social and Behavioral Sciences Elective<sup>1</sup>

Social and Behavioral Sciences Elective<sup>1</sup>

Science Elective - Laboratory Course<sup>1</sup>

Arts and Humanities, Social and Behavioral Sciences, and Math/Science distribution courses must be chosen from **TWO** different disciplines.

### Curriculum Courses:

Curricular Elective - 200-level or higher Literature Course<sup>2</sup>

Curricular Elective - 200-level or higher<sup>3</sup>

Curricular Elective - 200-level or higher<sup>3</sup>

Curricular Elective - 200-level or higher<sup>3</sup>

**Free Elective Courses:** Sufficient free electives must be taken to ensure the student has at least 66 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>Please refer to pages 60-61 for a list of courses fulfilling the distribution requirements. Note: To be chosen from any of the arts and humanities, social and behavioral sciences, or math/science courses listed on page 69.

<sup>2</sup>ENGL 209, 210, 211, and 315 DO NOT fulfill the literature curricular elective requirement.

<sup>3</sup>Experiential learning experiences DO NOT satisfy this requirement.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

## Pre-Major

Curriculum Coordinator: Patricia Jennings, Assistant Professor

The pre-major curriculum is designed to meet the needs of two types of students, those who wish to earn a college degree but who have not yet chosen a specific major, and those who need additional academic preparation before declaring the major of their choice.

The pre-major program offers students the opportunity to explore various careers and majors, to enroll in a variety of transferable college courses, and to complete foundation courses required for the various majors available at Keystone College. Once a student has earned 30 credits, the student must declare a major. The degree earned is based on the major selected.

It is **strongly recommended** that students in the pre-major program participate in seminars conducted by the Career Development Center.

These seminars will cover such topics as, but are not limited to, self discovery, choosing a major, and deciding on a career. A range of assessments will be utilized in order to help students who are undecided in their career planning make appropriate course selections.

ENGL 050 - Critical and Analytical Reading (see page 230) is a graduation requirement for all majors.

### Core Courses:

COMM 107 - Speech Communication

ENGL 101 - College Writing I

ENGL 102 - College Writing II

IDS 101 - The First-Year Seminar

IT 105 - PC Office Applications

MATH - Basic Algebra or a higher level MATH course<sup>1</sup>

PHED 105 - Wellness and Fitness

**Distribution Courses:** Students are encouraged to discuss with their advisers selection of appropriate electives beneficial to their future goals.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

### Footnotes:

<sup>1</sup>Students may choose to register for MATH 101 or a higher-level math course in their first or second semester. This decision should be made based on the needs of the student.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Wildlife Biology Associate in Arts**

Curriculum Coordinator: Robert Cook, Ph.D., Associate Professor

The wildlife biology curriculum is a pre-professional program designed to meet the initial educational needs of students who will continue study in ecology, zoology, and other related fields. Career opportunities for wildlife biologists are predominantly with state and federal agencies or consulting firms. Most jobs require the application of biological concepts to the management of the wildlife resource for the public good. Students meeting all graduation requirements receive an associate in arts.

Bachelor's degrees lead to the following emphases: aquarist, aquatic biologist, fisheries biologist, wildlife conservation specialist, wildlife biologist, wildlife researcher, wildlife manager, biology teacher, environmental education specialist, and zoo curator.

## **Graduation Requirements**

ENGL 050 - Critical and Analytical Reading (see page 230)

### **Core Courses:**

COMM 107 - Speech Communication

ENGL 101 - College Writing I

ENGL 102 - College Writing II

IT 105 - PC Office Applications

IDS 101 - The First-Year Seminar

MATH - Basic Algebra or a higher-level MATH course<sup>1</sup>

PHED 105 - Wellness and Fitness

### **Distribution Courses:**

BIOL 113 - General Biology I

BIOL 114 - General Biology II

CHEM 203 - Organic Chemistry I

HIST 102 - Western Civilization

HIST 109 - United States History I

or HIST 110 - United States History II

MATH 225 - Calculus I

PSYC 101 - General Psychology

or SOCI 101 - Introduction to Sociology

Social and Behavioral Sciences Elective<sup>2</sup>

### **Curriculum Courses:**

BIOL 108/109 - Introduction to Field Biology<sup>2</sup>

BIOL 211 - Microbiology

BIOL 214 - Introductory Ecology

CHEM 105 - General Chemistry I

CHEM 106 - General Chemistry II

Curricular Elective - Science<sup>3</sup>

EXPL - Experiential Learning<sup>4</sup>

PHYS 200 - General Physics I  
PHYS 205 - General Physics II  
or CHEM 204 - Organic Chemistry II  
or MATH 230 - Calculus II

**Free Elective Courses:** Sufficient free electives must be taken to ensure that the student has at least 71 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>Students who do not have a sufficient math background will need to take MATH 113 prior to MATH 225 and, if necessary, MATH 102 or 111 prior to MATH 113. These students may require an extra semester, or summer session, to complete this degree.

<sup>2</sup>Must total at least four credits.

<sup>3</sup>Must be chosen from the science disciplines. Students must earn a minimum of three credits.

<sup>4</sup>Students must earn at least one credit of EXPL.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.