General Information

The curriculum of each department is designed to attain these objectives. Introductory courses in astronomy, biology, chemistry, geology, health, human performance & sport management, mathematics and statistics, and physics are designed to meet the needs of all college students. Advanced courses are available in each field of study, arranged in scope and sequence, that lead to increased competency and specialization in these fields. Graduates of COS programs are capable of immediately seeking employment or pursuing an advanced degree through graduate education.

An associate degree is offered in nursing. Baccalaureate degrees are offered with majors in biology, chemistry, environmental health sciences, geology, health professions, health, human performance & sport management, mathematics, nursing and physics. Minors are offered in the aforementioned areas as well as in astronomy and statistics. Pre-professional curricula opportunities are also available within the college. Pre-professional curricula opportunities include but are not limited to dentistry, medicine, nursing, pharmacy, physical therapy, physician assistant and veterinary medicine. In addition, opportunities for study in marine science are provided through UALR’s affiliation with the Gulf Coast Research Laboratory located in Ocean Springs, Mississippi.

Please see the UALR Graduate Catalog for graduate coursework leading to master’s degrees in biology, chemistry, health, human performance & sport management, integrated science, mathematics, and applied mathematics, and for information about the doctoral programs available through applied science and bioinformatics.

Most COS departments offer honors track options for highly motivated and well-prepared students. Specific requirements are defined by each department. Please review the departmental descriptions on the following pages of this catalog and/or contact each respective department chairperson for details.

COS partners with the College of Health Related Professions (CHRP) of the University of Arkansas for Medical Sciences (UAMS) in providing the necessary pre-professional curricula for many of the CHRP programs. These programs are coordinated between both institutions and include all courses needed by students in the health-related professions. Many of the prerequisite courses for CHRP programs are listed in this catalog. Prospective students are expected to read the latest CHRP catalog or visit the website of their intended program to obtain the latest information on prerequisite requirements.

COS has several scholarships available in the various program areas. For more information contact the departmental offices or Karin Bara in the Office of Development.

Scholarships

COS has several scholarships available in the various program areas. For more information contact related departmental offices. Please note: Stephanie Conrad oversees UALR Private Scholarships. She may be contacted at (501) 683-7319 or you may email privatescholarships@ualr.edu for more information.

Students applying to a degree program in COS must meet the admissions requirements of the department offering the degree. Each department’s section in this catalog identifies its specific admissions criteria.

Pre-Admit Status

Students who do not meet admission requirements for a requested major may be assigned a “pre-admit” status. Those students will be advised by the Education Counselor in the Dean’s office until admission requirements are met. If students do not make academic progress in meeting admission requirements, the Education Counselor will provide assistance in determining a more suitable major.

Pre-professional Studies

COS offers pre-professional curricula for students interested in professional areas requiring a background in science and/or technology as well as in the liberal arts. The pre-medical and pre-health advisors and the college’s Premedical Advisory Committee advise students preparing to apply for entrance into such programs. Applications must be submitted approximately one year before the student enters a professional school. Thus, students should obtain information and advice about their intended programs of study as early as possible.
Prospective students should be aware of the Arkansas Health Education Grant Program (ARHEG). The ARHEG provides assistance to students seeking professional training in dentistry, optometry, veterinary medicine, osteopathic medicine, podiatric medicine and chiropractic medicine to allow them to attend out-of-state institutions. Students are encouraged to visit with ARHEG to determine if they meet the eligibility requirements and inquire about the availability of funding for that particular year.

**Pre-Medical and Pre-Dental**

Students are required to meet with the Pre-Med Advisor (Dr. Greg Barnes, FH 404) early in their academic career. Students are also required to meet with Dr. Barnes within the first two weeks of school the fall semester in which they are applying to medical or dental school. The following science courses meet the entrance requirements of most medical or dental schools. Students should contact the medical or dental school of their choice for specific entrance requirements.

- BIOL 1401 Science of Biology
- BIOL 2403 Zoology
- BIOL 3300 Genetics
- CHEM 1402 General Chemistry I
- CHEM 1403 General Chemistry II
- CHEM 3350 General Organic Chemistry I
- CHEM 3351 General Organic Chemistry II
- CHEM 3150 Organic Chemistry Laboratory I
- CHEM 3351 Organic Chemistry Laboratory II
- PHYS 1321 Elementary Physics I
- PHYS 1121 Elementary Physics I Laboratory
- PHYS 1322 Elementary Physics II
- PHYS 1122 Elementary Physics II Laboratory

These are the minimum science courses required and will prepare the student for the Medical College Admissions Test (MCAT). Some medical or dental schools may require or recommend additional courses. The College of Medicine of the University of Arkansas for Medical Sciences requires the following courses for admission: genetics, two semesters each of biology, general chemistry, organic chemistry, mathematics (or through Calculus I), and physics; and English. UAMS DOES NOT ALLOW FOR THESE COURSES TO BE TAKEN ONLINE. Students considering entrance at other medical schools should verify that specific program’s entrance requirements.

**Audiology and Speech Pathology**

Please see the undergraduate and graduate curriculum for audiology and speech pathology in the College of Professional Studies.

**Chiropractic**

A candidate must have completed at least 90 credit hours leading to a baccalaureate degree, including laboratory courses in biology, chemistry, and physics. A grade point of 2.25 or greater is required, and no more than 20 hours may be acquired through CLEP or challenge examinations. Only non-science courses may be completed through credit by examination. The Council on Chiropractic Education, through its accrediting agency, requires the pre-professional curriculum to include six hours of English, eight hours of biology with a laboratory, eight hours of inorganic chemistry with a laboratory, eight hours of organic chemistry with a laboratory, eight hours of physics with a laboratory, three hours of general psychology, three hours of sociology, 24 total physical sciences hours, and 24 total hours in the humanities or social sciences. Additional course requirements vary with each chiropractic program. The student should obtain specific information from the school of his or her choice.

**Cytotechnology**

This program is offered through the College of Health Related Professions at the University of Arkansas for Medical Sciences. To be admitted, students must have completed a minimum of 84 semester credits, at least five of which must be upper-level (junior/senior) from an accredited college or university. The required courses include:

- English Composition (6 hours)
- College Algebra (3 hours)
- Biology or Zoology (20 hours)
- Fundamental Chemistry (8 hours)
- Fine Arts (3 hours)
- History of Civilization or World History (6 hours)
- Humanities (3 hours)
- U.S. History or American Government (3 hours)
- Social Sciences (6 hours)
- Speech Communication (3 hours)
- Electives (24 hours)

**Dental Hygiene**

Dental Hygiene offers both an Associate and a Bachelor’s degree. Students should visit the website uams.edu/chrp, for specific requirements of each degree program. Students must have completed at least 39 credit hours from an accredited college or university to be admitted to the dental hygiene program in the College of Health Related Professions at the University of Arkansas for Medical Sciences. The required courses include:

- Microbiology (4 hours)
- College Algebra or higher mathematics (3 hours)
- Computer Fundamentals/Applications (3 hours)
- Fine Arts (3 hours)
- General Psychology (3 hours)
- History of Civilization (6 hours)
- Humanities (3 hours)
- Introduction to Sociology (3 hours)
- Speech Communication (3 hours)
- English Composition (6 hours)
- U.S. History or American Government (3 hours)

**Diagnostic Medical Sonography**

This program is offered through the College of Health Related Professions at the University of Arkansas for Medical Sciences. To be admitted, students must have completed a minimum of 52 credit hours from an accredited college or university.

The required courses include:

- English Composition (6 hours)
- Human Anatomy and Physiology (8 hours)
- Introductory Physics (4 hours)
- Speech Communication (3 hours)
- College Algebra (3 hours)
- U.S. History or National Government (3 hours)
- History of Civilization (6 hours)
- Introduction to Sociology (3 hours)
- General Psychology (3 hours)
- Fine Arts (3 hours)
- Humanities (3 hours)
- Computer fundamentals/applications (3 hours)
- Electives (6 hours)

**Emergency Medical Sciences**

Emergency Medical Sciences offers an Associates degree and a Certificate in Emergency Medical Sciences. It also offers an intensive Six-Month Paramedic Program. Please contact the CHRP Department for specific details about the Paramedic Program.
Health Information Management

This program is offered through CHRP at UAMS. To be admitted, students must have graduated from high school. Graduating high school students may apply to the program. There are no prerequisites. Successful applicants should be computer literate and know how to use word processing and spreadsheets. While there are no prerequisite courses, students must complete 35 credit hours of general education courses plus 3 credit hours of computer fundamentals; the latter must be taken within seven years of admission into the program.

Medical Technology

The Medical Technology program is offered through CHRP at UAMS and accepts students with a minimum of 67 credit hours. The pre-medical technology course work must include:

- College Algebra or higher math (3 hours)
- General Chemistry (8 hours)
- General Biology (BIOL 1401, 2403) (8 hours)
- Microbiology (4 hours)
- Anatomy and Physiology (4 hours)
- English Composition (6 hours)
- Speech Communication (3 hours)
- Fine Arts (3 hours)
- History of Civilization (6 hours)
- U.S. History or American Government (3 hours)
- Social Science (6 hours)
- Humanities (3 hours)
- Biological Science Electives (6 hours)
- Anatomy and Physiology (8 hours)
- Microbiology (4 hours)
- Elementary Physics (4 hours)
- College Algebra or higher math (3 hours)
- Chemistry (3 hours)

Department of Imaging and Radiation Sciences

Nuclear Medicine Imaging Sciences Program

This program is offered through CHRP at UAMS. To be admitted, students must have completed a minimum of 84 credit hours from an accredited college or university, 6 credit hours of which must be junior/senior level. The required pre-professional courses include:

- Human Anatomy and Physiology (8 hours)
- Elementary Physics I and II (8 hours)
- General Chemistry (8 hours)
- Biological Sciences or Microbiology (4 hours)
- Statistics (3 hours)
- College Algebra (3 hours)
- Speech Communication (3 hours)
- English Composition (6 hours)
- History of Civilization (6 hours)
- Humanities (3 hours)
- U.S. History or American Government (3 hours)
- Fine Arts (3 hours)
- Social Sciences (6 hours)
- Computer fundamentals / Applications (3 hours)
- Electives (19 hours)

Optometric Technology

This program is offered through CHRP at UAMS. To be admitted, a candidate must have completed at least 55 credit hours from an accredited college or university. Biology / Health Science courses must be suitable for majors in those disciplines and must include laboratory credit in required courses. The course requirements include:

- English Composition (6 hours)
- History of Civilization (6 hours)
- U.S. History or American Government (3 hours)
- Social Science (6 hours)
- Speech Communication (3 hours)
- Fine Arts (3 hours)
- Humanities (3 hours)
- Biological Science Electives (6 hours)
- Anatomy and Physiology (8 hours)
- Microbiology (4 hours)
- Elementary Physics (4 hours)
- College Algebra or higher math (3 hours)
- Chemistry (3 hours)

Medical Dosimetry

This program is offered through the College of Health Related Professions (CHRP) at UAMS. Applicants who have or will have completed a bachelor’s degree in a biological sciences, physical science (physics, chemistry, or mathematics), biomedical engineering, or radiation sciences (as a registered radiation therapist) prior to fall registration will be considered for admission to seek a bachelor’s degree if they have successfully completed the course work listed below. The required pre-professional courses include:

- College Algebra (3 hours)
- Calculus I and II (6 hours)
- Additional math (3 hours)
- Chemistry with laboratory (4 hours)
- Biology with laboratory (4 hours)
- Anatomy and Physiology I & II (8 hours)
- Physics I and II (algebra or calculus based) (8 hours)
- Medical Terminology (3 hours)
- English Composition I and II (6 hours)
- American History or National Government (3 hours)
- World/Western Civilization I and II (6 hours)
- Humanities (3 hours)
- Sociology/Psychology (6 hours)
- Speech (2 hours)
- Computer Fundamentals/Applications (3 hours)
- Fine Arts (3 hours)
- Electives (22 hours/7 hours)

Optometry

Most schools and colleges of optometry require certain courses prior to admission. These courses include:

- General Biology and Zoology (8 hours)
- General Chemistry (8 hours)
- Organic Chemistry (8 hours)
- English (6 hours)
- Mathematics (including differential calculus) (6-9 hours)
- Microbiology (4 hours)
- Psychology (3 hours)
- Elementary Physics (8 hours)
Additional course requirements vary with each optometry program. The student should obtain the specific information from the school of his or her choice. Science courses taken at UALR should be those designated for pre-professional students and must include laboratory experience. Brief survey courses in the sciences will not prepare a student for an optometry school.

Physical Therapy

There are physical therapy programs available at the University of Central Arkansas (UCA) and Arkansas State University (ASU); Both programs are graduate level and require a baccalaureate degree for admission plus specific course requirements. UCA’s program is a doctoral program and ASU’s is a master’s program. Students interested in either program should request admissions materials directly from the appropriate institution. Students should also seek advisement while attending UALR from an advisor in the Department of Biology or the dean’s office in the College of Science.

Pre-Pharmacy

This two-year, 69-hour pre-pharmacy curriculum meets the specific entrance requirements of the University of Arkansas College of Pharmacy located on the UAMS campus. Students planning to enter other schools of pharmacy are urged to obtain a copy of the entrance requirements from the school of their choice early in their freshman year and coordinate those requirements with courses taken at UALR. For advising purposes, the pre-pharmacy students should declare Chemistry BA or BS degree or Biology BS as major. The UALR pre-pharmacy curriculum assumes that the student is prepared to enroll in MATH 1302 and CHEM 1402. If the student is deficient in these areas, an additional semester or summer school may be necessary.

The UALR pre-pharmacy curriculum is organized by subject areas, semester hours, and courses. Some of the subject areas allow for choices among courses. In the freshman year the student should fulfill the mathematics requirement, at least six hours of the English/communications requirement, the general chemistry and biology requirements, the economics requirement, and one or two humanities electives. In the sophomore year, the student should satisfy the physics, organic chemistry, and critical thinking requirements, together with the remaining required communication course and humanities electives.

No course can be used to satisfy the requirements in more than one area. No more than eight semester hours of CLEP, AP credit, or credit by examination for core requirements that appear on the official transcript will be accepted to meet the pre-pharmacy requirements. For non-core requirements, no more than 12 semester hours of CLEP, AP credit, or credit by examination that appear on the official transcript will be accepted to meet the pre-pharmacy requirement will be accepted. Note that UAMS pharmacy does not accept on-line courses or laboratory courses. Courses should be taken in a face-to-face format. The humanities elective requirement cannot be met by developmental education courses or courses in the following areas: health, physical education, business, science, military science, education, computer courses, agriculture, studio courses in art, music, or theater. All chemistry and biology courses must be courses for majors in that field. Physics courses do not have to be calculus-based.

Pharmacy Suggested Curriculum (69 hours)

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<tr>
<th>MATHEMATICS (3-5 HOURS)</th>
<th>ECONOMICS (3 HOURS)</th>
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<tbody>
<tr>
<td>MATH 1451 Calculus I</td>
<td>ECON 2322 Principles of Microeconomics</td>
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<td>or MATH 1311 Applied Calculus I</td>
<td>or ECON 2323 Principles of Macroeconomics</td>
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<td>or ECON 2301 Survey of Economics</td>
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<td>or ACCT 1310 Introduction to Accounting and Taxation</td>
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<td>or ACCT 2310 Principles of Accounting I</td>
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<tr>
<th>ENGLISH/COMMUNICATION (9 HOURS)</th>
<th>RECOMMENDED ELECTIVES (9 HOURS)</th>
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<tbody>
<tr>
<td>RHET 1311 Composition I</td>
<td>CHEM 2310 Analytical Chemistry I</td>
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<tr>
<td>RHET 1312 Composition II</td>
<td>MATH 1452 Calculus II</td>
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<tr>
<td>ENGL 2335 Introduction to Literature</td>
<td>or MATH 1312 Applied Calculus II</td>
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<td>or RHET 2312 Advanced Composition</td>
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<td>or other, higher course</td>
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<td>SPCH 1300 Speech Communication</td>
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<tr>
<th>CHEMISTRY (16 HOURS)</th>
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<tr>
<td>CHEM 1402 General Chemistry I</td>
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<td>CHEM 1403 General Chemistry II</td>
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<td>CHEM 3350 General Organic Chemistry I</td>
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<td>and CHEM 3150 Organic Chemistry Laboratory I</td>
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<td>CHEM 3351 General Organic Chemistry II</td>
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<td>and CHEM 3151 Organic Chemistry Laboratory II</td>
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<th>BIOLOGY (12 HOURS)</th>
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<tr>
<td>BIOL 1401 Science of Biology</td>
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<td>BIOL 2401 Microbiology or BIOL 4406 Pathogenic Microbiology</td>
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<td>BIOL 2403 Zoology</td>
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<td>PHYSICS (4 HOURS)</td>
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<td>PHYS 1321 Elementary Physics I</td>
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<td>and PHYS 1121 Elementary Physics I Laboratory</td>
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<th>ECONOMICS (3 HOURS)</th>
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<tr>
<td>ECON 2322 Principles of Microeconomics</td>
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<tr>
<th>RECOMMENDED ELECTIVES (9 HOURS)</th>
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<td>CHEM 2310 Analytical Chemistry I</td>
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<td>MATH 1452 Calculus II</td>
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<td>or MATH 1312 Applied Calculus II</td>
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<td>STAT 2350 Introduction to Statistical Methods</td>
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<td>PHYS 1322 Elementary Physics II</td>
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<td>and PHYS 1122 Elementary Physics II Laboratory</td>
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<tr>
<td>PHIL 1330 Introduction to Critical Thinking</td>
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<td>or PHIL 2350 Introduction to Logic</td>
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<tr>
<td>BIOL 3402 Mammalian Anatomy or BIOL 4402 Limnology</td>
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<td>or BIOL 3300 Genetics and BIOL 3100 Genetics Laboratory</td>
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<td>or BIOL 4417 Molecular Biology or BIOL 4401 Cell Biology</td>
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<td>or CHEM 4420 Biochemistry</td>
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<tr>
<th>HUMANITIES ELECTIVES</th>
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Respiratory Care

This program is offered through CHRP at UAMS. Both an associate of science and a bachelor of science degree are available. The bachelor of science degree may be completed in either Little Rock or Texarkana. To be admitted to the bachelor of science program, students must have completed a minimum of 66 credit hours from an accredited college or university. The required pre-professional courses include:

| English Composition (6 hours)    |                              |
| College Algebra (3 hours)        |                              |
| Human Anatomy and Physiology (8 hours) |                    |
| Chemistry (4 hours)              |                              |
| Physics (4 hours)                |                              |
| Microbiology (4 hours)           |                              |
| Speech Communication (3 hours)   |                              |
| U.S. History or American Government (3 hours) |     |
| Computer Fundamentals/Applications (3 hours) |       |
| General Psychology (3 hours)     |                              |
| Introduction to Sociology (3 hours) |                              |
| History of Civilization (6 hours) |                              |
| Humanities (3 hours)             |                              |
| Fine Arts (3 hours)              |                              |
| Electives (6 hours)              |                              |
Surgical Technology
This program is offered through CHRP at UAMS Associate of Science Degree.

The following 34-35 semester credits are required from a regionally accredited college or university and must fulfill all College of Health Related Professions requirements regarding acceptance of transfer credit:

- Human Anatomy and Physiology (8 hours)
- Microbiology (4 hours)
- Computer Fundamentals (3 hours)
- College Algebra or higher math (3 hours)
- English Composition (6 hours)
- Speech Communication (3 hours)
- U.S. History or American Government (3 hours)
- Introduction to Sociology (3 hours)
- General Psychology (3 hours)
- Electives (5 hours)

For specific details on the time requirement to complete courses for the associate degree, contact the chairperson of the Department of Surgical Technology at UAMS.

Veterinary Medicine
Admission requirements to colleges of veterinary medicine are similar to those listed for medicine. However, admission requirements do vary. Students interested in veterinary programs should contact the college of their choice and identify specific requirements early in their undergraduate studies.

UALRTeach
This innovative teacher preparation program offers students seeking math or science degrees the opportunity to also earn a teaching license. Students receive early field experience and learn from mentor teachers while still pursuing their core degree. UALRTeach allows students to explore teaching as a career at no cost. Both of the one-credit courses below are available to UALR students who are thinking of majoring in science or math.

UALRTeach classes begin in the fall, SCED/IGSC 1101 Step 1: Inquiry Teaching FYC. The class focuses on hands-on and inquiry-based lessons. SCED/IGSC 1102 Step 2: Inquiry Lesson Design is offered in the spring. Students will continue developing lesson-planning skills learned in Step 1 but also become familiar with exemplary middle school science curricula.

SCED/IGSC 1101 Step 1: Inquiry Teaching FYC
An introduction to the theory and practice necessary to design and deliver quality inquiry-based science and mathematics instruction that provides the scaffold for the early field experience. In this one hour credit course, the UALRTeach instructor or master teacher and the elementary school mentor teacher emphasize both inquiry and classroom management techniques. Step 1 invites students to explore teaching as a career. With the guidance of the instructor, in Step 1, students teach science or math lessons in upper elementary classrooms to obtain firsthand experience with planning and implementing inquiry-based curriculum. Master teachers teach Step 1, so students have direct access to accomplished teachers holding certificates who love teaching and who believe that teaching is a rewarding career choice. Local public school elementary classrooms provide the future teachers with a first taste of teaching in a supportive, diverse environment. Students shall be required to submit to a criminal background check.

SCED/IGSC 1102 Step 2: Inquiry Lesson Design
Prerequisite: SCED/IGSC 1101. This course (Step 2) continues the exploration of teaching careers in a middle school environment that began in SCED/IGSC 1101 (Step 1). In this one hour credit course, students observe a lesson taught by a middle school mentor teacher, and then plan and teach three inquiry-based middle school lessons with a partner. Students build on and practice lesson design skills developed in the Step 1 course while also becoming familiar with science or mathematics curricula for the middle school setting. Students demonstrate their own content knowledge in developing the lesson plans. As a result of their classroom experiences, students reflect on the observation and their teaching. At the end of the Step 2 experience, students are generally ready to make a decision about whether they want to pursue a pathway to teacher certification.

Course in Integrated Science
IGSC 4401 Integrated Science Methods
Prerequisite: 16 credit hours of science courses. Lecture, laboratory, and field methods stress the learning of science as active, integrated, constructive processes involving experimentation, investigation, communication, reasoning, and problem solving as applied to life, earth, and physical systems. Three hours lecture and two hours laboratory sessions are held each week.

Departments/Programs
Department of Applied Science

Department of Biology
- Bachelor of Science in Biology
- Bachelor of Science in Environmental Health Sciences

Department of Chemistry
- Bachelor of Arts in Chemistry
- Bachelor of Science in Chemistry

Department of Earth Sciences
- Bachelor of Science in Geology

Department of Health, Human Performance & Sport Management
- Bachelor of Science in Health, Human Performance and Sport Management: Emphasis in Health Education & Promotion
- Bachelor of Science in Health, Human Performance and Sport Management: Emphasis in Health & Exercise Science in Secondary Education

Department of Mathematics & Statistics
- Bachelor of Arts in Mathematics
- Bachelor of Science in Mathematics

Department of Nursing
- Associate of Science in Nursing
- Bachelor of Science in Nursing

Department of Physics & Astronomy
- Bachelor of Arts in Physics
- Bachelor of Science in Physics