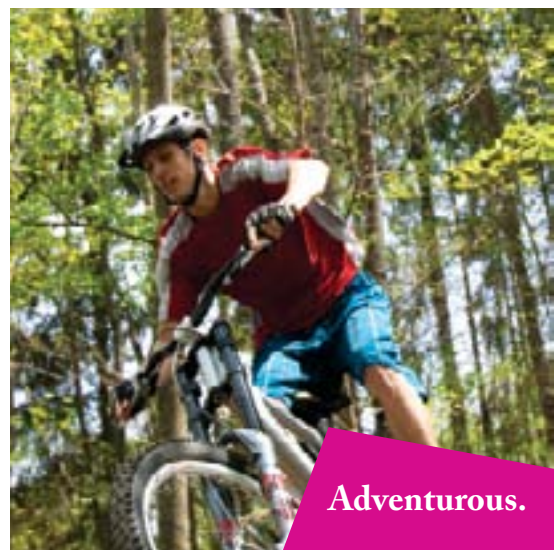


Be A-B

2011-2012 Academic Catalog
Undergraduate Students



101 College Hill Drive | Philippi, WV 26416



(800) 263.1549
www.ab.edu

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NOTICE OF NONDISCRIMINATORY POLICY AS TO STUDENTS

Alderson-Broaddus College admits qualified students of any race, color, sex, national and ethnic origin to all the rights, privileges, programs and activities generally accorded or made available to the students at the College. Alderson-Broaddus College does not discriminate on the basis of creed, religion, national and ethnic origin, age, race, color, gender, or handicap in the administration of its educational programs, admissions policies, financial aid policies, and/or programs, athletics, co-curricular activities, employment practices, or other College-administered programs. Alderson-Broaddus College provides opportunities for educational and personal growth. Students in a free society have the right to choose the college which best suits their needs, interests and life styles. Having chosen their college, however, students have the responsibility to observe the standards and regulations established by that college. A student's enrollment at Alderson-Broaddus College involves an agreement with the College to abide by the academic and non-academic regulations of this institution.

NOTICE OF DISCLAIMER

Nothing in this publication or any of Alderson-Broaddus College's written policies, handbooks or other documents and nothing stated orally by a representative of the College should be construed to create any contractual obligations on the part of the College. Furthermore, no one at the College is authorized to contractually obligate the College to any student unless the obligation is in writing and is signed by the President of the College or designee. Recognizing that changes may be necessary, the College reserves the right to change at any time its policies, guidelines and procedures, including without limitation, the College's curricula, course offerings, fees, requirements for graduation and any other matters set forth in the various catalogs, manuals, written policies and other documents, at the sole discretion of the College.

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ACADEMIC CALENDAR

Fall Semester

	<u>2011-2012</u>	<u>2012-2013</u>
President's Cabinet	August 15	August 13
Administrative Advisory Council	August 16	August 14
New Employee Orientation	August 17	August 15
Faculty-Staff Workshop	August 18-19	August 16-17
Arrival of New Students	August 20	August 18
New Student Orientation/Registration	August 22	August 20
Registration of Returning Students	August 23	August 21
First Day of Classes	August 24	August 22
Last Day to Add-Drop Classes	August 30	August 28
Labor Day Holiday	September 5	September 3
Homecoming and Parents Weekend	October 14-16	October 12-14
Midterm	October 14	October 12
Fall Break	October 20-23	October 18-21
Board of Trustee/Governor Meeting	October 28-29	October 26-27
Thanksgiving Recess	November 19-27	November 17-25
Classes Resume	November 28	November 26
Final Examinations	December 12-16	December 10-14
Winter Recess Begins	December 19-Jan. 16, 2012	Dec 17-Jan. 14, 2013

Spring Semester

	<u>2011-2012</u>	<u>2012-2013</u>
Registration Confirmation	January 17	January 15
First Day of Classes	January 18	January 16
Martin Luther King Day Holiday	January 16	January 21
Last Day to Add-Drop Classes	January 25	January 23
Midterm	March 9	March 8
Spring Break	March 10-18	March 9-17
Classes resume	March 19	March 18
Easter Recess	April 6-8	March 29-31
Classes resume	April 9	April 1
Spring Festival	April 13-15	April 12-14
Honors Convocation	April 14	April 13
Board of Trustee/Governor Meeting	April 20-21	April 19-20
Reading Day	May 3	May 2
Final Examinations	May 4-5; May 7-9	May 3-4; May 6-8
Summer Recess Begins	May 10	May 9
Baccalaureate	May 12	May 11
Commencement	May 12	May 11

Summer Semester

	<u>2011-2012</u>	<u>2012-2013</u>
Registration Confirmation	May 21	May 20
First Day of Classes	May 22	May 21
Last Day to Add-Drop Classes	May 24	May 23
Memorial Day Holiday	May 28	May 27
Midterm	June 22	June 21
Independence Day holiday	July 4	July 4
Reading Day	July 26	July 25

GENERAL INFORMATION

Alderson-Broaddus College Mission

Identity

Alderson-Broaddus College is an independent institution of higher learning, committed to serving the region as an academic, cultural, and religious resource, with programs based on a strong liberal arts foundation. The college is rooted in historic and continuing relationships with the West Virginia Baptist Convention and the American Baptist Churches in the U.S.A.

Mission

The mission of Alderson-Broaddus College is to provide our students with the highest quality education, striving to prepare students to succeed in their chosen disciplines and to fulfill their roles in a diverse society as well-rounded and responsible citizens.

Core Values

High Academic Quality

The College values learning founded on high academic standards demonstrated by the open exchange of ideas, freedom and diversity of thought, and intellectual challenge and rigor. The College sustains such high expectations of the members of its community through the continuous improvement of learning and teaching.

Service

The College values service as a lifelong commitment. It seeks to foster the development of such a commitment among its students, faculty, and staff by providing opportunities for them to engage in meaningful service to others.

Personal Growth and Development

The College aims to advance the personal growth and development of all students by providing a caring environment that embraces the Christian values of moral integrity, service, trust, justice and compassion characterized by individualized attention to their academic, physical, spiritual, social, psychological, and aesthetic needs.

Life of Learning

The College promotes a life of learning by encouraging and supporting inquiry, creativity, and application of learning in socially responsible ways.

Diversity

The College deeply values its Appalachian heritage and promotes respect and appreciation for every person and for the richness of a diverse, multi-cultural, and global society.

Church Relatedness Statement

As a faith-based learning community, Alderson-Broaddus College affirms and proclaims that the source, reality, meaning, and purpose of human existence are shaped by the goodness, power, oneness, and faithfulness of the Sovereign God, disclosed and incarnate in the life, ministry, death, and resurrection of Jesus Christ and attested to by the biblical revelation given by the Holy Spirit through human witness. As a church-related institution of higher education, we fulfill our educational mission through dependence on, trust in, and responsive commitment to that Sovereign God.

We believe in the unity of God's ultimate truth, and we value the integration of faith and reason in the pursuit of knowledge and understanding in all areas of life. We believe that every human being is created in the image of God and possesses the ability to learn and grow both spiritually and intellectually. Our goal, therefore, is to cultivate sound reasoning and critical thinking through a curriculum grounded in the liberal arts, including biblical studies, and to empower persons with the skills to better serve God and humanity.

Alderson-Broaddus College seeks to provide a caring community, reflective of the diversity present in society and in the body of Christ, but united in mutual respect and understanding. We embrace Christian values, including moral integrity, service, trust, justice, and compassion, among others. Within a nurturing environment, we seek to support and empower all members of our community to explore and carry out these values.

Alderson-Broaddus College affirms our commitment to our historical and continuing place within the Church of Jesus Christ, as it is embodied in the West Virginia Baptist Convention and American Baptist Churches/USA. Within this commitment, we support religious freedom and respect for various expressions of faith and celebrate the Church's racial, cultural, and theological diversity. We value the interdependence and mutual accountability between churches and the College. We affirm our openness to being educated by the Church as well as our responsibility to educate and equip the Church to join us in responding to the biblical call to renewal and to the need

for a vital witness in society. Through such a relationship, we are able to cooperatively fulfill our shared responsibilities for ministry and mission.

Vision Statement

Alderson-Broaddus College will:

- prepare graduates for success and service to humanity;
- embody its Christian commitment by caring for each student in a learner centered environment;
- be renowned as a leader in health-related and professional higher education firmly rooted in the liberal arts;
- and
- serve the people of Appalachia to enhance the quality of life and economic viability of the region.

Accreditations and Memberships

Alderson-Broaddus College is a private institution chartered under the laws of the State of West Virginia, affiliated with the West Virginia Baptist Convention and with the American Baptist Churches USA. While the College is Baptist in heritage and relationship, it is not sectarian in outlook. Students are admitted on the basis of academic ability and moral character.

The College is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools.

Higher Learning Commission
230 South LaSalle Street, Suite 7-500
Chicago, IL 60604

800.621.7440

Alderson-Broaddus College is a member of the Council of Independent Colleges, the National Association of Independent Colleges and Universities, the International Council on Education, the West Virginia Association of Colleges for Teacher Education, the American Association for Teacher Education, the Association of Christian Higher Education of the American Baptist Churches /USA, and the West Virginia Independent Colleges and Universities, Inc.

The nursing baccalaureate program is accredited by the National League for Nursing and is approved by the West Virginia Board of Examiners for Registered Professional Nurses.

Accrediting Agencies:

National League for Nursing Accrediting Commission
(NLNAC)
3343 Peachtree Rd NE, Suite 500
Atlanta, GA 30326
404-975-5000
www.nlnac.org

*State Of West Virginia Board of Examiners for
Registered Professional Nurses
(WVBOERN)
101 Dee Drive
Charleston, WV 25311
304-558-3596
www.wvrnboard.com*

The teacher education program is accredited by the Teacher Education Accreditation Council (TEAC) and the West Virginia Department of Education.

TEAC
One Dupont Circle NW Suite 320
Washington, DC 20036

West Virginia Department of Education
1900 Kanawha Boulevard East

Charleston, WV 25305

The athletic training program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).

Commission on Accreditation of Athletic Training Education
2201 Double Creek Drive, Suite 5006
Round Rock, Texas, 78664
<http://www.caate.net>.

The Master of Science in Physician Assistant Studies has recently been granted Provisional Accreditation for its developing Physician Assistant Studies Program.

Provisional Accreditation is an accreditation status granted by the ARC-PA for a limited, defined period of time (3 years) to a new PA program that has demonstrated its preparedness to initiate a program in accordance with the Accreditation Standards for Physician Assistant Education. Only those institutions which are actively engaged in establishing a program for the education of physician assistants (PA) are eligible for provisional accreditation. The provisional accreditation process involves a thorough review of the planning, organization, and proposed content of a program that is in the advanced planning stages, but not yet operational.

Provisional accreditation is the only entry way for new programs into the accreditation process, and must precede the matriculation of students. Provisional Accreditation does not ensure any subsequent accreditation status.

ARC-PA,
12000 Findley Road, Suite 150,
Johns Creek, Georgia 30097
770-476-1224

The College is recognized by the American Association of University Women, the American Association of University Professors, and numerous other learned and professional societies. State departments of education have approved the institution for the training of teachers for elementary and secondary schools.

ADMISSION TO THE COLLEGE

Information pertaining to admission to Alderson-Broaddus College can be found on the Admissions' website:

<http://admissions.ab.edu>

FEES AND FINANCIAL AID

Comprehensive tuition, room, board and general fees total \$29,976.00 for the year 2011-2012. These yearly amounts are based upon two semesters in residence on campus. See additional information below concerning tuition. The total cost of educating a student at Alderson-Broaddus College for one year is significantly more than the amount paid by the student. Gifts to Alderson-Broaddus from churches, trustees, alumni, and other friends, along with endowment income and certain efficiency factors, provide the difference.

The College strives to keep the cost to parents and students as reasonable as possible, consistent with the development and maintenance of an instructional staff and campus facilities, which assure high-quality education. The College reserves the right to adjust charges from year to year in accordance with operating costs and inflationary trends.

Expenses for 2011-2012 (2 semesters)

Year Tuition* 22,530.00

Room and Board..... 7,236.00

General Fee..... 210.00

Total..... \$29,976.00

*Based on 12-20 semester hours each semester

Expenses for 2012-2013 will be announced in the spring of 2012.

Tuition

Tuition charges are based on the number of college-sponsored semester hours attempted, whether on or off campus. These rates apply to full-time and part-time students. The charge for 2011-2012 is \$751 per semester hour. Students are charged tuition based on a per-credits hour basis up through 11 semester hours, at \$751 per credit hour. For a credit hour load of 12-20 hours, students are charged a flat fee of \$11,265.00 per semester. Semester hours taken beyond 20 hours are charged on a per-credit hour basis.

For the medical/radiological technology and physician assistant programs, tuition variances do occur, as the result of the required clinical experience needed for these programs.

General Fee (2011-2012)

The general fee of \$105 per semester is assessed for students who register for 12 or more semester hours, and \$52.50 per semester for students who register for 7-11 semester hours. This required fee includes charges for student activities, student center, student publications, and special events, and is administered by the Student Government Association (SGA).

Special Fees

Special fees will be assessed on a nonrecurring basis to students requesting special academic services.

Room and Board

As long as college facilities are available, all un-married students are required to live in college residence halls except as noted on page 26 under "Residence Hall Living." The College will determine the number of occupants in each room. College residence hall rooms are rented for \$1,780.00 per student, double occupancy, per semester in 2011-2012. When double rooms are permitted to be used as single rooms, a 50 percent increase in rent is charged. Opening and closing dates for residence halls are stipulated in the academic calendars on pages vi and vii. Any students needing to arrive earlier must secure permission from the vice president for student services and pay for the extra room and board. Residence halls will be closed when the College is not in regular session, except for those students whose course of study or campus work requires them to remain at the College.

Such students must obtain permission from the director of residence life to remain on campus, must observe all college regulations, will be charged full room and board rates for all such days on campus, and may be required to live in rooms other than the ones they occupy during the regular session. The College reserves the right to use residence hall rooms for the housing of visitors during prolonged vacation periods. Students are notified of such use in advance of the vacation period when this is contemplated. The College has contracted with a professional food service management company for its food services and attempts to maintain high quality facilities and service. Board costs are \$1,838.00 per semester in 2011-2012. All resident students are charged for full board in the College dining hall. No refunds are granted for meals missed.

Refunds

Course Withdrawals

If a student drops a course up through the regular registration period, the student is not charged for that course. However, if a student withdraws from a course following the regular registration period, he/she will be charged for the tuition.

Withdrawal from the College

For students who withdraw from the College during the fall or spring semester, pro-rata refunds of tuition, room and board will be given through the ninth week of the semester. All financial aid awarded for the semester will be pro-rated as well. No refunds will be given to students who withdraw after the ninth week, or to students who are dismissed or suspended from the College.

The pro-rating will be based on:

1. A 15-week semester
2. Rounding of the refund down to the nearest 10% of the time period after:
 - a. Deducting any unpaid charges owed by the student, which the student has been charged.
 - b. Adding an administrative fee of 5% of the charges assessed or \$100, whichever is less.

Summer Semester

Summer semester students will be granted pro-rata refunds up to a maximum of 60 percent of a five (5) week term, subject to the additional conditions of number two (2) above. No refunds will be given to students who withdraw after the third week or to students who are dismissed or suspended from the College.

Music Fees

During the first month of classes, the applied music fee will be refunded in full minus 1/14 of the fee for each lesson taken, including unexcused absences. After one month from the first day of classes no refunds will be granted. Check with Students Accounts Manager in the Business Office.

Financial Aid

The primary responsibility for the cost of a student's education must rest with the student and their parents. However, Alderson-Broaddus College gives limited financial assistance to promising and deserving students who present evidence of special need. The college has a program of aid which includes scholarships, grants, loans and work. Because the demand is always greater than the resources available, the amount granted to any individual student must be limited. In most cases, however, students will receive a combination of scholarship, loan and work which, added to their own resources, will enable them to meet college expenses. The student must complete the Free Application for Federal Student Aid in order to be considered for any Institutional, State or Federal assistance.

The College's priority deadline is March 1.

Charges Payable

All accounts with the college must be paid in full before a student is permitted to register for another semester. Transcripts and diplomas will be withheld until the student's financial obligations to the College have been met.

All term or semester charges are due by August 15th for the fall term and by January 4th for the spring term. If the balance is not paid by these dates a late fee of \$150.00 will be assessed. Also, for each month that there is a balance unpaid interest will be charged on the unpaid amount

at the end of each month, excluding August and January. The interest rate is 6% over twelve months (ex. \$100 x 6% divided by 12 = \$0.50)

Check with Students Accounts Manager in the Business Office.

Financial Aid Categories

Financial aid falls into specific categories and is administered by carefully planned policies. The categories include scholarships, grants, loans and work opportunities.

Alderson-Broaddus College provides a number of scholarships and grants through the College budget. The Financial Aid Office of the College awards these funds. These awards are renewable if the student maintains minimum requirements established by the College. Go to www.ab.edu to get more information.

Alderson-Broaddus College also participates in the West Virginia Promise Scholarship program and the West Virginia Higher Education Grant Program and all Federal Title IV financial aid programs.

Please go to www.ab.edu for information on the different types of financial aid that are available.

Satisfactory Academic Progress for Financial Aid — In order to be eligible to receive federal, and/or, state or institutional financial aid, federal regulations require that a student be making satisfactory progress toward the completion of his/her degree or program. These standards apply to each potential financial aid recipient, whether a previous aid recipient or not. In addition, Alderson-Broaddus College has established academic standards for the renewal of internally funded grants and scholarships, and various donors have established criteria for the renewal of their endowed scholarships and grants. Copies of policies regarding Satisfactory Academic Progress and renewal of internally funded and endowed scholarships and grants are available at www.ab.edu or upon request in the Financial Aid Office.

Financial Aid — International Students

Limited amount of financial aid are available to international students. International students must complete an institutional application for financial aid.

STUDENT LIFE AND STUDENT SERVICES

Information pertaining to Student Life at Alderson-Broaddus College can be found in the Student Handbook

http://ab.edu/sites/default/files/pdfs/Student_Handbook10-12.pdf

and on the College's Website

<http://ab.edu/current-students>

ACADEMIC INFORMATION

The student is responsible for knowing Academic Policies and is responsible for satisfactorily meeting both general and special requirements for graduation.

GENERAL ACADEMIC INFORMATION

The Undergraduate College Year

The academic year consists of two 15-week semesters, which span the period from late August through mid-May. The student is expected to earn an average of 32 semester hours of credit per academic year. There is a ten-week summer term during which a limited number of regular year offerings are scheduled.

Unit of Academic Credit

Credits are expressed in semester hours. Fifteen regular class sessions of one hour with two hours of preparation per class session or fifteen three or four-hour laboratory sessions will generally yield one semester hour of credit. Generally, a three-credit course will meet in three one-hour sessions per week, with an additional three-hour period for final examinations.

Degrees Offered

Alderson-Broaddus College offers undergraduate programs of study through which a student may earn the Bachelor of Arts, Bachelor of Science, Associate in Arts, or Associate in Science degree. The college also offers the Master of Science degree for Physician Assistants. The College will confer a second baccalaureate degree or a second associate's degree upon any student who has completed the stated requirements for the second degree, whether this is accomplished along with the completion of the first degree or at any later time. A "second degree" is interpreted to exclude more than one Bachelor of Arts, Bachelor of Science, Associate in Arts or Associate in Science degree from Alderson-Broaddus College. The latter will instead be recorded as a second or additional major.

Grade Reports

At the end of the semester students are able to access their course grades in WebAdvisor. Students who want a paper copy of the grade report must provide the Registrar's Office with a written request. Any grade of "D", "F", or "U" will be reported at midterm to the Provost Office and a Midterm Deficiency Report will be sent to the student. Throughout a student's first year at the College a Midterm Deficiency Report will be sent to a student's permanent address.

GENERAL ACADEMIC POLICES

Class Attendance

Class Attendance Policies are found in the Student Handbook.

Withdrawal from College

A student withdrawing from the College, either during an academic term or at the completion of an academic term, must complete a Withdrawal Form available in the Registrar's Office. Failure to comply with this procedure will result in the recording of an "F" on the student's permanent record. Withdrawing from the college means withdrawing from all registered courses. This is only permitted with a grade of "W" during the period prior to the last day to withdraw each semester. After the last day to withdraw, a grade in each course must be assigned.

Leave of Absence

Under unavoidable situations and for justifiable reasons a student may be granted a Leave of Absence for one semester. A leave is granted only when the absence seems necessary and the student definitely plans to return when the period of absence expires. A leave of absence can be granted for one semester only, although that semester may be either preceded or followed by a regular vacation semester. A Leave of Absence form should be received from and returned to the

Registrar by the applicant. The applicant must get the required signatures. The student is not eligible for financial aid from Alderson-Broaddus College during this time, and the student will enter his/her grace period for student loan repayment. The college will notify the VA that a student receiving veteran benefits is not enrolled; the student himself/herself must also send such notice to the VA. Any student aid or work assignment formerly held is relinquished. The college cannot make academic adjustments for courses missed.

Transcript Requests

- Persons who desire an official copy of their college record must make a written request to the registrar.
- The College's transcript request form can be found at: <http://ab.edu/node/877>
- All financial obligations to the College must be satisfied before a transcript will be issued, therefore requests should be made at least two weeks before the transcript is needed. Once the repayment period has begun, delinquency related to an educational loan will be regarded to be reason for withholding transcripts.

Equal Opportunity For Students With Disabilities Policy

See Student Handbook.

Family Education Rights and Privacy Act (FERPA)

See Student Handbook.

REGISTRATION INFORMATION

Faculty Advisors

Each student is assigned a faculty advisor who assists in the selection of courses to meet requirements. This person, as well as the Registrar's Office, maintains a cumulative record of the courses taken and the grades received. The faculty advisor counsels on academic progress and helps the student with vocational plans and objectives. **The student, however, is responsible for knowing both general and special requirements, and for meeting them satisfactorily for graduation.**

Credit Hour Registration Information

1. Credit Loads
 - Part-Time Enrollment is less than 12 credits and is charged for each credit hour.
 - Full-Time Enrollment is 12-20 hours and is charged the block tuition rate.
 - Enrollment for 21-22 credits is considered an overload and will have additional charges attached.
2. Registration above 18 credits hours during any semester is restricted.
 - In order to register for more than 18 credit hours during any semester a student must be at the Sophomore, Junior or Senior level and have a cumulative GPA of 3.00.
 - Students (including freshmen) who are required to enroll in courses in order to receive scholarship assistance will not have the credits associated with those courses counted in the 18 credit limit.
 - Students not meeting these conditions will be required to get the permission of the Provost.
3. No student will be allowed to register for more than 22 credits.
4. Students on academic probation or admitted on academic probation will not be allowed to register for more than 15 credits.

Change of Registration

1. Any change in registration must be processed through the Registrar's Office.
2. "Dropping" a course within the first four days will not be entered on the permanent record but must be properly processed.

3. If a student “withdraws” from a course following the Add/Drop period, but within fifty-five days of the term, he/she receives a grade of W.
4. Withdrawal after the 55th class day will result in a grade of “F” unless the provost/vice president for academic affairs deems that a health or other emergency exists.
5. A student who has registered for auditing cannot change the registration to credit after the end of the add/drop period.

Determination For Placement in Courses

1. Math Placement

Based upon Math ACT or SAT scores and/or the College’s Math Placement Test, a student may be required to complete Mathematics 110, Basic Algebra, prior to enrolling for higher-level mathematics courses. In addition, based on the above, students may be allowed to by-pass lower level mathematics courses for placement in courses up through Mathematics 231 (Calculus 1) and Mathematics 232 (Calculus II).

<u>Students with ACT Math scores of:</u>	<u>Placement:</u>
20 or below (SAT Math 500 or below)	MATH-110
21 or above (SAT Math 501 or above)	MATH-111 or MATH-113
23 or above (SAT Math 521 or above)	MATH-141 or MATH-151
25 or above (SAT Math 580 or above)	MATH-231 or MATH-166
ACT 23-25 may take proficiency test to determine By-Pass	
ACT 26 or above for By-Pass of Math Requirement	

2. English Placement

Based upon English ACT or SAT Verbal scores and/or the College’s Language Placement Test, a student (without receiving academic credit) may be required to complete English 180. Students may also be able to bypass (without receiving academic credit) English 190 and/or English 200.

<u>Students with ACT English scores of:</u>	<u>Placement</u>
18 – 24 (SAT Verbal of 400 – 549)	ENGL-190

3. Foreign Language Placement

- A student's placement in his or her initial foreign language course is based upon the credit received for foreign languages in high school. One year of high school credit is considered equivalent to one semester of study in the same language in college. Therefore,
 If no high school credit has been earned, the student begins with (Language) 110.
 If one year of high school credit has been earned, the student begins with (Language) 111--or 110.
 If two years of high school credit have been earned, the student begins with (Language) 220--or 110, or 111.
 If three years of high school credit have been earned, the student begins with (Language) 221--or 110, 111, or 220.
- Any exception to this placement policy, either recommended by the academic advisor or requested by the student, must be approved by the foreign language faculty.
- Specific language requirements within various major programs are found under the section “Programs of Study - Majors”.
- Students who are uncertain about the level at which they should begin their foreign language study should meet with the foreign language faculty for evaluation.
- Students who are bilingual, as determined by the foreign language faculty, are exempt from any foreign language study requirement.
- Students enrolling in a conversational foreign language course that is part of an international studies program sponsored by the College may count the course in fulfilling their foreign language requirement, even if the conversational course is in a different language. However, that course may not be used to replace a course in the middle of the normal sequence of the language requirement.

- **DIVISION OF HUMANITIES - Foreign Language Placement**

Students with majors in the Humanities are required to complete four semesters of study in one modern language, through the (Language) 221 level. Students who have completed four years of one modern language in high school will have fulfilled this requirement.

Exceptions to this policy:

- ✓ Students who earn credit for a conversational foreign language course completed as part of an international studies program sponsored by the College may fulfill the language requirement by completing only three semesters of one modern foreign language, through the (Language) 220 level.
- ✓ Students who have completed at least two years in high school of a modern foreign language not offered at the College may fulfill their requirement by taking two semesters of one foreign language.

- **DIVISION OF SOCIAL SCIENCES - Foreign Language Placement**

Students with majors in the Social Sciences are required to complete three semesters of study in one modern foreign language, through the (Language) 220 level. Students who have completed three years of one modern language in high school will have fulfilled this requirement.

Exceptions to this policy:

- ✓ Students who earn credit for a conversational foreign language course completed as part of an international studies program sponsored by the College may fulfill the language requirement by completing only two semesters of one modern foreign language, through the (Language) 111 level.
- ✓ Students who have completed at least two years in high school of a modern foreign language not offered at the College may fulfill their requirement by taking two semesters of one foreign language.
- ✓ Students with a major in some programs offered through the Department of Business do not have a foreign language requirement. Students with a major in Business Administration are required to take two semesters of a foreign language or to participate in an international studies program sponsored by the College or to complete an independent project in foreign study.

- **DIVISION OF NATURAL SCIENCES - Foreign Language Placement**

Students with majors in the Natural Sciences do not have a foreign language requirement. Students in these majors who elect to take foreign languages courses will be placed according to the placement policies given above.

- **DIVISION OF HEALTH SCIENCES - Foreign Language Placement**

Nursing and Athletic Training majors do not have a foreign language requirement. Students in these majors who elect to take foreign languages courses will be placed according to the placement policies given above.

- **DIVISION OF EDUCATION & SPECIAL PROGRAMS - Foreign Language Placement**

Only the departmental major of Applied Music has a foreign language requirement. Students in that major are required to take three semesters in any of the following modern foreign languages, provided that at least two semesters are in the same language: French, Spanish, Italian, or German.

Credit By Examination

1. The College utilizes the College Board's **Advance Placement Program**. The test results are furnished to the College upon the request of the student.

Courses may not be used to meet requirements in majors or minors without department approval. Courses may be used to meet liberal studies and elective credit requirements.

Advanced Placement	SCORE	CR	A-B COURSES	Liberal Studies
				Goal
Art History	3	3	ART-190	II-F-1
Biology	4	8	BIOL-210 and BIOL-211	II-A
Calculus AB	4	7	MATH-231	I-B
Calculus BC	4	8	MATH-231 and MATH-232	I-B
Chemistry	4	8	CHEM-200 and 201	II-A
Comparative Govt.	3	3	POLS Elective	
Computer Science A	4	6	CSCI-261 and CSCI-262	I-C
Computer Science AB	NA		Not Accepted	
English Language	4	3	ENGL-190	I-A-1
English Literature	3	3	ENGL Elective in Literature	II-E
Environmental Science	4	4	ENVS Elective	II-A
French Language	4	3	FRCH Elective	
French Literature	NA		Not Accepted	
German Language	4	3	GERM Elective	
Human Geography	4	3	GEOG Elective	
Macroeconomics	4	3	ECON-201	II-C-2
Microeconomics	4	3	ECON-211	II-C-2
Music Theory	4	3	MUSC-100 or 113 w/ placement	II-F-1
Physics B	4	4	PHYS-221 and PHYS-222	II-A
Physics C	4	3	PHYS Elective	
Psychology	4	3	PSYC-190	II-C-1
Spanish Language	4		SPAN-220	
Spanish Literature	NA		Not Accepted	
Statistics	4	3	MATH-251	I-B
Studio Art	4	1	ART Elective	
United States History	3	6	HIST-200 and HIST-210	II-D
U.S.Govt & Politics	3	3	POLS-200	II-C-2
World History	3	6	HIST-150, HIST-160	II-D

2. The College utilizes the College Board's **College-Level Examination Program** (CLEP). The test results are furnished to the College upon the request of the student.

CLEP Examination	SCORE	CR	A-B COURSES	Liberal Studies
American Literature	50	3	ENGL Elective	Goal II-E
Analyzing and Interpreting Literature	50	3	ENGL Elective	Goal II-E
English Composition with or without Essay	50	3	ENGL Elective	
English Literature	50	3	ENGL Elective	Goal II-E
Freshman College Composition	50	3	ENGL Elective	
French Language - Level 1 (two semesters)	50	3	FRCH Elective	
French Language - Level 2 (four semesters)	50	3	FRCH Elective	

German Language - Level 1 (two semesters)	50	3	GERM Elective	
German Language - Level 2 (four semesters)	50	3	GERM Elective	
Spanish Language - Level 1 (two semesters)	50	3	SPAN Elective	
Spanish Language - Level 2 (four semesters)	50	3	SPAN Elective	
American Government	50	3	POLS-200	Goal II-C-2
History of the U.S. I: Early Colonizations to 1877	50	3	HIST-200	Goal II-D
History of the U.S. II: 1865 to the Present	50	3	HIST-210	Goal II-D
Human Growth and Development	50	3	PSYC-220	Goal II-C-1
Humanities	50	3	HUMN Elective	
Introduction to Educational Psychology	50	3	EDUC Elective	
Principles of Macroeconomics	50	3	ECON-201	Goal II-C-2
Principles of Microeconomics	50	3	ECON-211	Goal II-C-3
Introductory Psychology	50	3	PSYC-190	Goal II-C-1
Social Sciences and History	50	3		
Introductory Sociology	50	3	SOCI-190	Goal II-C-1
Western Civilization I: Ancient Near East to 1648	50	3	HIST-150	Goal II-D
Western Civilization II: 1648 to the Present	50	3	HIST-160	Goal II-D
Biology	50	3	BIOL Elective	Goal II-A non-lab course
Calculus	50	3	MATH-231	Goal I-B
Chemistry	50	3	CHEM Elective	Goal II-A non-lab course
College Algebra	50	3	MATH-113	Goal I-B
College Algebra-Trigonometry	50	3	MATH Elective	Goal I-B
College Mathematics	50	3	MATH Elective	Goal I-B
Natural Sciences	50	3	NSCI Elective	Goal II-A non-lab course
Trigonometry	50	3	MATH Elective	Goal I-B
Principles of Accounting	50	3	BUSI Elective	
Introductory Business Law	50	3	BUSI Elective	
Information Systems and Computer Applications	50	3	CSCI-134	Goal I-C
Principles of Marketing	50	3	BUSI Elective	
Principles of Management	50	3	BUSI Elective	

3. The College recognizes the achievements of students who attain their certification as radiology technologists. When warranted by study program, the College will grant 60 academic credits.
4. A student who is enrolled in a degree program at Alderson-Broaddus College and who has acquired substantial knowledge in a particular subject area may request permission to take an examination in that subject. Subject areas included in the approved list of CLEP tests will not be considered for a departmentally planned examination. The student must demonstrate work of at least "C" quality in order to receive credit for the course, but no grade will appear on the official record. A fee of \$20 per semester hour is charged for the examination.

Guidelines Related to the Credit by Examination Policies

1. The provisions of the Advanced Placement Program (AP) and the College-Level Examination Program (CLEP) will be open to any student who:
 - Submits his/her official scores as an entering student (in a manner similar to the procedures under which transfer students submit official and original transcripts), or
 - Is currently registered as a student of the College and
 - (a) has not previously attempted the course, either through regular class registration or audit; and
 - (b) has not previously earned credit for any course(s) in sequence above that represented by the examination.

2. Credit by examination, up to a maximum of 60 semester hours, may be counted toward a baccalaureate degree at Alderson-Broaddus College.
3. A related college policy stipulates, however, that the last 32 hours of a degree program must be earned through course work on the campus.
4. In all cases of credit or advanced placement earned in this manner, the official record will show that such recognition was gained by examination. Credit (if appropriate) will be recorded but will not earn any Quality Points.

Semester hours of credit for the Alderson-Broaddus equivalent course(s) will apply to liberal studies and elective requirements only. The use of the courses to meet the requirements or the prerequisites of a major or a minor will be the decision of the program's department, and an approved Program Modification/Course Substitution form will need to be completed

Auditing a Class

- A person desiring to audit a course must obtain permission from his/her advisor and written permission from the course instructor.
- Auditors do not take examinations, submit written work, do laboratory work, or participate in class discussion except at the invitation of the instructor.
- Laboratory courses, studio art, applied music, private instruction, physical education activity courses, or other courses, which require the development of specific personal skills, and therefore a significant degree of personal instruction, are not open for auditing.
- Audits will be recorded without credit.
- Auditors must register for the course.
- Full-time students do not pay the audit fee; other auditors pay the current announced fee.

Permission To Take Work Elsewhere

A student who is working toward a degree at Alderson-Broaddus or who wishes to be recommended by the College for teacher certification must secure permission in advance to take courses for credit at another institution by filing with the Registrar an application approved by the advisor. Without such permission, credits earned elsewhere may not be accepted. Courses which have earned an "F" at another institution will not receive transfer credit. Work transferred from another institution is not counted in a student's cumulative average except in determining his/her eligibility for teacher certification.

Transfer Credit Policies

- Alderson-Broaddus College accepts transfer credit from regionally accredited colleges and universities in the United States.
- The registrar will evaluate official transcripts after the student has accepted Alderson-Broaddus College's offer of admission and has made a tuition deposit.
- Academic credit will be award for all qualifying courses.
- In order to be awarded credit for a specific Alderson-Broaddus College course, the transfer course will be evaluated using the course description, the level of the course, the information covered in the course, and the date when the course was taken. Evaluations may involve consultation with the appropriate academic department. The student may be requested to provide further information concerning the course.
- Courses within academic programs may need to be reviewed by the appropriate department chairperson before a final evaluation is made.
- Academic credit is not granted for:
 - Courses in which the student has earned an "F".
 - Remedial courses
 - Workforce or Occupational courses
 - Recreation courses
 - Graduate Level courses
 - Life Experience
- The courses which have been transferred will appear with the credits listed and grades earned on the student's Alderson-Broaddus College transcript. The grades will not be calculated into the Alderson-Broaddus College grade point average.

- Alderson-Broaddus College only provisionally accepts transfer credit from unaccredited colleges and universities. A student transferring from such an institution must earn a 2.00 cumulative GPA in twenty-four credits of work attempted at Alderson-Broaddus College. After this is achieved the credit will be entered into the student's permanent record.

Transfer Students' Graduation Requirements

- To qualify for a bachelor's degree transfer students must complete the last thirty-two credits at Alderson-Broaddus College. Individual programs may have additional requirements.
- Transfer students must complete at Alderson-Broaddus College at least eighteen credits of the courses required in the academic program at Alderson-Broaddus College. Individual programs may have additional requirements.

STUDENT ACADEMIC ACHIEVEMENT INFORMATION

Grades, Quality Points and Cumulative Averages

<u>Grade</u>	<u>Quality Points</u>	<u>Grade Definitions</u>
A	4	Superior work in the achievement of course requirements.
B	3	Good work in the achievement of course requirements.
C	2	Average work in the achievement of course requirements.
D	1	Poor work in the achievement of course requirements.
F	0	Unacceptable level of work; failure to achieve course requirements.
I	0	Incomplete
W	0	Withdrawn
H	0	Honor
S	0	Satisfactory
U	0	Unsatisfactory
AU	0	Audit, No credit earned

A cumulative average of at least 2.00 based on work taken at Alderson-Broaddus College is required for graduation. Quality points are used to determine cumulative averages for academic standing, academic honors and graduation. The cumulative average is obtained by dividing the number of quality points earned by the number of semester hours attempted in those courses through which it is possible to earn quality points. Semester hours related to "H", "S", "U", and "W" grades are therefore disregarded in the computation of the average.

Incomplete Grades

A mark of "I" (Incomplete) may be temporarily entered on a student's record for two reasons:

1. the student is unable to complete specific course requirements due to illness, personal emergency, or other circumstances beyond his/her control.
The following conditions must prevail:
 - The student has maintained a passing grade during his period of attendance, which will generally include at least twelve weeks of the semester.
 - The appropriate instructor files with the Provost/Executive Vice President for Academic Affairs a Request for an Incomplete form, which includes justification for the granting of the incomplete. (If approved, the request is attached to the grade sheet and delivered to the Registrar.)
 - If the course work has not been completed and the final grade recorded by the end of the fourth week of the academic term immediately following, a grade of "F" will be entered on the official record unless an extension has been authorized by the Provost/Executive Vice President for Academic Affairs.
2. a specific course is designed so that the work is to be completed during the following semester or during the summer session. Examples of these courses include (but are not limited to) research courses, courses involving foreign travel, musical performances. The instructor will fill out and sign the final grade roster at the end of the semester indicating

the grade of incomplete and will update the grade roster with the final grade as soon as the course is completed.

Course Repetition With Cancellation of Original Grade

- A student may repeat a course in which a grade of “D” or “F” was originally earned. The best attempt is used for the computation of the cumulative average.
- If the course is taken a third time, best of the three attempts is used in the calculation of the cumulative average.
- The repetition(s) must occur at Alderson-Broaddus College.
- Graduation credit will be allowed for only one offering of a repeated course.

Student Classification

Generally students are classified by the number of semester hours for which credit has been earned and/or accepted in transfer. In select programs, such as nursing or medical science, student classification may be determined by program level.

<u>Class</u>	<u>Semester Hours</u>
Freshmen	-28
Sophomore	29-61
Junior	62-94
Senior	95-

A part-time student is one who is registered for less than twelve semester hours.

A non-degree student is one not working toward a degree.

An auditor is one who attends classes without working for credit.

Student Academic Standing

A student's academic standing is determined by the Alderson-Broaddus cumulative GPA in relation to the number of all attempted credit hours, using both A-B and attempted credits which had been transferred to A-B. To meet the minimum acceptable good-standing requirements, a student must attain the following cumulative average.

<u>Attempted Semester Hours</u>	<u>Cumulative Average</u>
1-23	1.60
24-47	1.80
48-71	1.90
72+	2.00

Academic Probation, Suspension and Dismissal

All decisions concerning academic probation, suspension, and dismissal are made by the Academic Program Committee, chaired by the Provost/Executive Vice President for Academic Affairs.

Probation

1. A student who does not attain the required cumulative average will be placed on academic probation for the following semester.
 - A probationary semester provides a warning but also an opportunity to bring the cumulative average up to the required standard.
 - During the probationary period, the student is limited to a 15 semester hour load.
 - The student must enroll in General Studies 100 during the first semester of the probationary period if the student has not already completed the course and still is of freshman standing.
 - Once placed on academic probation, the student continues in that category until the cumulative average is equal to or greater than that required for good standing.
 - A student who is on probation is considered not to be in good standing. Students on probation are not eligible to be certified for NCAA sports.

2. A transfer student whose admission to Alderson-Broaddus College is on a probationary status will be placed on academic suspension if he/she does not meet the conditions specified at the time of transcript evaluation. Usually the condition is that the student must have a 2.0 academic average at the conclusion of the first two full time semesters at Alderson-Broaddus. During the probationary period, the student is limited to a 15 semester hour load, and if of freshman standing must enroll in General Studies 100 during the first semester of the probationary period if the student has not already completed the course.

Suspension

1. If following the probationary semester a student fails to achieve a semester average at least equal to that required for good standing, he/she will be placed on academic suspension for the following semester. Students who have been placed on academic suspension will be informed of the procedure for readmission following the suspension semester (readmission is not automatic).
2. Although the student may meet the minimum requirements of any of the foregoing, any student who, in the judgment of the Academic Program Committee, is still failing to make expected progress toward graduation may be subject to academic suspension.
3. In accordance with conditions stipulated in the official notice of suspension, a student suspended for academic reasons can make written application to the Provost / Executive Vice President for Academic Affairs for readmission. The student's application will be reviewed by a special committee and the student may be required to appear before the committee (consisting of the following three persons or an authorized representative if a member is unable to attend: Provost / Executive Vice President of Academic Affairs, Vice President for Student Services, and academic advisor for the student who is being interviewed) to present evidence of motivation and determination to succeed. The committee will decide whether the student is to be readmitted and whether any conditions of readmission should be stated in addition to the following:
 - A student will have at least two semesters within which to attain good standing provided that within each post-suspension probationary semester the student demonstrates progress toward the cumulative average required for the number of credits attempted.
 - When a readmitted student's cumulative average reaches the required good standing level, he/she is removed from academic probation. If, at some later time, that student's cumulative average again falls below the good standing level required in that semester, he/she will begin a new probationary period. A student who reaches the suspension point a second time will be dismissed from the College.

Dismissal

Dismissal from the College follows the failure of a student to meet readmission conditions. A student so dismissed may not reapply.

The Dean's List and the President's List

At the end of each semester students who have attained a semester average of 3.60 or above are named to the Dean's List if they have carried at least 12 semester hours. Students who attain a semester average of 3.40 to 3.59 and who meet the other specifications indicated above are given honorable mention. To be named to the President's List, a student must have been on the Dean's List at Alderson-Broaddus for five semesters.

Academic Awards

During the second semester, students who have demonstrated high academic achievement and who have made significant contributions to campus life are recognized at Honors Convocation. The following awards have been made available by the College and by organizations, alumni, and other friends:

***Graduating Senior Academic Award** for the highest cumulative average in the senior class who is graduating during the current commencement year.

***Senior Academic Award** for the highest cumulative average in the senior class who is not graduating during the current commencement year.

***Junior Academic Award** for the highest cumulative average in the junior class.

***Sophomore Academic Award** for the highest cumulative average in the sophomore class.

***Humanities Academic Award** to the senior with the highest average in the humanities.

***Natural Science Academic Award** to the senior with the highest average in the natural sciences.

***Social Science Academic Award** to the senior with the highest average in the social sciences.

***Athletic Training Academic Award** to the senior with the highest average in athletic training.

***Business Administration and Economics Academic Award** to the senior with the highest average in business administration and economics.

***Education Academic Award** to the senior in elementary or secondary education with the highest average in education.

***Health, Human Performance and Recreation Academic Award** to the senior with the highest average in Health, Human Performance and Recreation.

***Music Academic Award** to the senior with the highest average in music education, applied music, and/or musical arts.

***Nursing Academic Award** to the senior with the highest average in nursing.

***Radiography Academic Award** to the senior with the highest average in radiography.

E. W. Billings Memorial Award, granted on the basis of scholarship, leadership, and Christian commitment, to a student preparing for a church vocation.

Dr. A. R. Mansberger Award, given by family and friends, to students going into the pastoral ministry.

Ruth Shearer Secondary Education Award, for outstanding scholarship in education, coupled with high standards of character and leadership, in honor of a former member of the College faculty.

Atkeson Memorial Award, granted on the basis of academic achievement, personal integrity, and vocational potential to a sophomore or junior in elementary education.

Visual Art Award for outstanding achievement in the visual arts.

W. Lee and Alberta Williams Music Award for excellence in music.

Jack and Virginia Clinard Vocal Music Award for contribution through service and participation while maintaining good progress in the study of voice.

Charles L. Ervin Instrumental Music Award for an instrumental music major who has made significant contributions to musical life of the college.

Communication Award for outstanding achievement in communication.

Alice T. Rosanski Award to a junior with 3.0 GPA, 25 years of age or older, has children, great potential for quality and compassionate nursing care.

Nursing Alumni Association Award for an outstanding senior nursing student who demonstrates high academic achievement, clinical competence and leadership potential.

Brenda Jones Memorial Natural Science Education Award to a student in preparation for teaching in the natural sciences.

Natural Science Research Award for outstanding laboratory research in the natural sciences.

Forrest G. Clark Award for the athlete in the senior class with the highest academic average.

Joan Wilson Award for the outstanding senior woman who is preparing to teach in the areas of Health and Physical Education.

Rex E. Pyles Award for the outstanding senior man who is preparing to teach in the areas of Health and Physical Education.

Epsilon Tau Sigma Alumni Academic and Citizenship Award, a special recognition for a student who has been outstanding in citizenship, character, and sensitivity, as well as in scholarship and service.

Greek Academic Achievement for Sororities

Greek Academic Achievement for Fraternities

Ruth Joudrey Smith Memorial Prize to help make possible, for a qualified student, participation in the International Studies Program.

Dr. James W. Daddysman Award to recognize an academically superior student participating in the Semester in Europe program.

The following awards are presented for outstanding papers:

Davis-Duncan Writing Award

Independent Study Award

Louise Callison Humanities Writing Award

Natural Science Writing Award

Social Science Writing Award

Nursing Writing Award**Business Administration and Economics Writing Award****Education Writing Award****Humanities Writing Award**

**To be eligible for any of the "highest average" awards, a student must have achieved at the beginning of the second semester a cumulative average, which meets the minimum standard for graduation honors (currently 3.40).*

The Silver Key: A junior and senior honor society. To be eligible for membership a student must have (1) earned a minimum of 60 semester hours of credit at Alderson-Broaddus College and, at the beginning of the second semester a cumulative average of 3.60; (2) evidenced high qualities of character, both on and off the campus; and (3) made a significant contribution to college life through participation in student and campus activities.

Who's Who Among Students in American Universities and Colleges:

In order to be initially considered among seniors nominated by the College for inclusion in this annual publication, a student must have earned at least 60 semester hours of credit at Alderson-Broaddus College, must project graduation during the current academic year and possess a cumulative average as of the beginning of the first semester which meets the minimum standard for graduation honors (currently 3.40). To a list of persons who meet these criteria, further standards are applied: (1) persons nominated must possess high qualities of personal character; (2) they must have demonstrated capacity for leadership on the campus; and (3) they must have been concerned to render service to the College.

GRADUATION INFORMATION**Degrees Offered**

Alderson-Broaddus College offers undergraduate programs of study through which a student may earn the Bachelor of Arts, Bachelor of Science, Associate in Arts, or Associate in Science degree. The college also offers the Master of Science degree for Physician Assistants. The College will confer a second baccalaureate degree or a second associate's degree upon any student who has completed the stated requirements for the second degree, whether this is accomplished along with the completion of the first degree or at any later time. A "second degree" is interpreted to exclude more than one Bachelor of Arts, Bachelor of Science, Associate in Arts or Associate in Science degree from Alderson-Broaddus College. The latter will instead be recorded as a second or additional major.

Graduation Requirements

A student must file an Application for Degree with the Registrar's Office the semester before his/her last full semester in residence

- A degree will be conferred on a student only when all graduation requirements have been met and all financial obligations to the College have been met.
- In addition to the annual Commencement, degrees will be conferred at the end of the first semester and at the end of the summer term. The list of graduates prepared for the annual spring Commencement will include the names of those persons who graduated at the end of the first semester as well as those anticipating graduation the following August. Students whose graduation date is at the end of the first semester or at the end of the summer term that wish to participate in Commencement exercises must do so at the Commencement when their names are officially listed, as indicated above.

Bachelor's Degree

In order to be eligible for graduation from the College with a Bachelor of Arts or Bachelor of Science degree, a student must meet the following requirements:

1. The liberal studies program as outlined on the *Liberal Studies Check Sheet*.
2. A minimum of 128 semester hours must be earned.
 - Not more than four one-credit courses may be counted within the total of 128 semester hours unless they are specifically designated for inclusion in the student's program. In the event of a change of major, the student may petition the Provost /

Executive Vice President of Academic Affairs to allow a greater number of one-credit courses to be included in the 128 hour total.

- The last 32 semester hours must be taken in residence unless prior permission to do otherwise, is granted through the Office of the Provost/Vice President for Academic Affairs.
 - A transfer student must be in residence a minimum of two full semesters.
3. The specific requirements of the academic program in which the student is enrolled.
 4. A cumulative average of at least 2.00 on all work attempted at the College.
 5. A minimum average of 2.00 on courses attempted at the College in the major.
 6. Satisfactory passing of a comprehensive examination planned and administered by the faculty responsible for the student's major program.

Associate's Degree

Students who are working toward the Associate's degree should check the specific requirements for the program in which they are enrolled. All students seeking the Associate's degree must meet the following requirements:

1. The liberal studies program as outlined on the *Liberal Studies Check Sheet*.
2. All course requirements for the specific degree as well as the total semester-hour requirement for the degree sought.
3. A cumulative average of at least 2.00 in all courses required for graduation.
4. An overall cumulative average of 2.00.
5. No more than four one-credit elective courses may be counted in the electives selected to meet graduation requirements.
6. Twenty of the last forty semester hours of a student's program must be taken under the auspices of Alderson-Broaddus College.

Graduation Honors

Undergraduate students whose academic work has been of unusual distinction will be graduated with honors, based on their cumulative averages as follows:

summa cum laude	3.9 to 4.00
magna cum laude	3.7 to 3.89
cum laude	3.4 to 3.69

To be eligible for these graduation honors, a student must have completed at least 60 semester hours at the College.

PROGRAMS OF STUDIES

BACHELOR DEGREE PROGRAMS

Accounting

leading to a Bachelor of Science Degree

Division of Social Sciences

Department of Business

Required Courses:

Business	120	(3)	Introduction to Marketing
Business	140	(3)	Introductory Accounting I
Business	150	(3)	Introductory Accounting II
Business	160	(3)	Introduction to Management
Business	184	(3)	Computers in Business
Business	250	(3)	Business Ethics
Business	251	(3)	Business Statistics
Business	281	(3)	Business Law I
Business	285	(3)	Business Law II
Business	290	(3)	International Business
Business	320	(3)	Business Finance
Business	355	(3)	Management Science
Business	550	(3)	Strategic Management/Business Policy
Communication	130	(3)	Speaking Effectively
Economics	201	(3)	Macro-Economics
Economics	211	(3)	Micro-Economics
English	260	(3)	Technical Writing

PLUS THE FOLLOWING COURSES:

Business	260	(3)	Intermediate Accounting I
Business	265	(3)	Intermediate Accounting II
Business	300	(3)	Cost Accounting
Business	311	(3)	Auditing I
Business	315	(3)	Auditing II
Business	410	(3)	Federal Income Tax I
Business	415	(3)	Federal Income Tax II
Business	420	(3)	Advanced Accounting
Business	425	(3)	Government/Not for Profit Accounting

PLUS FOUR courses chosen from offerings in:

Geography, History, Political Science, Psychology, Sociology

ADDITIONAL HOURS: Students must be cognizant that 150 hours of coursework is required to sit for the CPA Examination. This may include taking a variety of additional courses to be selected as the student desires. Accounting advisors will insure students are aware of this 150 hour requirement and assist them to plan accordingly.

Athletic Training

leading to a Bachelor of Science Degree

Division of Health Science

Department of Athletic Training

The Athletic Training Education Program is accredited through the Commission on Accreditation of Athletic Training Education (CAATE), 2201 Double Creek Drive, Suite 5006, Round Rock, Texas, 78664, <http://www.caate.net>. On graduation from the program, the graduate has completed the educational requirements to take the National Athletic Trainers' Association Board of Certification (BOC) examination.

The education program consists of two phases:

1. Athletic Training Basic Education Program (ATBEP)

This program consists of course work and clinical observation taken during the first two years. Students will use the knowledge obtained to build a foundation in the athletic training program. Also, students will learn the Alderson-Broadbudd College philosophy of athletic training.

2. Athletic Training Education Program (ATEP)

Once students have been formally admitted into the program, the last two years entail advanced, specialized courses and clinical experiences to perfect and expand the knowledge acquired in ATBEP.

Admission Procedures

• Program Application

Program applications are available in the Program Director's Office, and are given to students in the beginning of their sophomore spring semester course, ATHL 211. Transfer students who have completed course work that covers the pre-requisite requirements for application as approved by the College's Registrar may apply at this time as well. All transfer applications are considered on an individual basis by the program director. All students are admitted to the program during the fall semester following application. Students who wish to combine athletic training with a second major in teacher education must fulfill all requirements of both the athletic training major and the teacher education program, including the specific requirements for the desired teaching field(s). This will require more than four years to complete.

• Selection Criteria and Process

As previously described the athletic training major has two phases (ATBEP and ATEP). Both phases consist of formal course work and clinical observation requirements. Students must fulfill these requirements and progress from ATBEP to ATEP. Admission into the program is selective and limited, and students must apply for admission. The number of students accepted into the program each year is based on the availability of clinical supervisors and quality clinical instruction. Criteria for selection include, in order of importance: cumulative grade point average, completion of academic prerequisites, copies of college transcripts for all work completed to date, written application, including three (3) letters of recommendation, interview, observation hours and CPR certification. Students apply during the spring semester of their sophomore year. Transfer students must apply during the spring semester as well. To qualify for admission consideration, the student must meet the following eligibility requirements for formal admission into the ATEP during the ATBEP.

Athletic Training Basic Education Program (ATBEP) requirements:

1. A cumulative grade point average of 2.5 or higher.

2. Completion of the following pre-requisites with no grade below a "C":

Biology	270	(4)	Anatomy and Physiology I
Biology	271	(4)	Anatomy and Physiology II
Health Education	250	(3)	Personal Health
Health Science	260	(2)	Nutrition
Health Science	261	(1)	Strength Training and Conditioning
Physical Education	335	(2)	Safety Education and First Aid
Athletic Training	150	(2)	Athletic Taping and Bracing
Athletic Training	211	(1)	Practicum I
Athletic Training	250	(3)	Ortho. Evaluation. of the Lower Extremity
Athletic Training	260	(3)	Ortho. Evaluation. of the Upper Extremity
Athletic Training	270	(3)	Athletic Injury Control and Management.

3. Copies of college transcripts for all work completed to date.

4. Submit a formal written application to the program director by February 15, including three (3) letters of recommendation. The application will include a one page, double-spaced, typed, written sample, addressing the following: first, the single most important attribute for an effective health care provider; and second, personal traits or attributes you possess which will allow you to become an effective health care provider.

5. Complete an interview with members of the Department of Athletic Training as arranged.

6. Complete a minimum of 100 hours of directed observation by the end of the sophomore year. Fifty (50) hours will be as partial fulfillment of Athletic Training 270, and the other fifty (50) hours will be under the supervision of the Alderson-Broaddus College athletic training faculty.
 7. Obtain CPR certification or re-certification.
- Students will be notified of acceptance into the program no later than March 20.

Athletic Training Education Program (ATEP) requirements:

Once the student has been formally admitted into the ATEP, he or she will be assigned an academic advisor within the Alderson-Broaddus College athletic training program faculty. Students formally begin their clinical requirements in the fall semester following acceptance into the program. To complete these clinical requirements following the academic plan, students register for an athletic training course (Athletic Training 312, 313, 414, 415) each semester, and are then assigned to an Approved Clinical Instructor (ACI). Following initial acceptance into the ATEP, students must meet the following criteria to remain in good standing within the program.

1. Officially declare athletic training as major.
2. Earn no grade below a "C" and maintain a minimum of a 2.75 grade point average within major course work during junior and senior years.

** Note: Students that do not meet one or more of the ATEP requirements will be placed on probation. Although each case is handled on an individual basis by the program director, failure to meet the requirements may result in dismissal from the program. Students must meet the technical standards, or believe that, with certain accommodations, they can meet the standards to be admitted in to the ATEP. The technical standards are explained in detail in the ATEP handbook.*

Required Courses:

Athletic Training	101	(2)	Freshman Experience in Athletic Training
Athletic Training	150	(2)	Athletic Taping and Bracing
Athletic Training	211	(1)	Practicum I
Athletic Training	250	(3)	Orthopedic Evaluation of the Lower Extremity
Athletic Training	260	(3)	Orthopedic Evaluation of the Upper Extremity
Athletic Training	270	(3)	Athletic Injury Control and Management
Athletic Training	312	(3)	Practicum II
Athletic Training	313	(3)	Practicum III
Athletic Training	340	(3)	Sports Injuries & Therapeutic Modalities
Athletic Training	370	(3)	Rehabilitation of Athletic Injuries
Athletic Training	400	(3)	Sports Medicine
Athletic Training	401	(1)	Research in Athletic Training
Athletic Training	405	(3)	Administration in Athletic Training
Athletic Training	414	(3)	Practicum IV
Athletic Training	415	(3)	Practicum V
Biology	210	(4)	General Biology I
Biology	270	(4)	Anatomy & Physiology I
Biology	271	(4)	Anatomy & Physiology II
Chemistry	200	(4)	General Chemistry I
Health Education	250	(3)	Personal Health
Health Science	260	(2)	Nutrition
Health Science	261	(1)	Strength Training & Conditioning
Mathematics	113	(3)	College Algebra
Mathematics	141	(3)	Trigonometry
Mathematics	251	(3)	Statistics
Physics	221	(4)	General Physics I
Psychology	190	(3)	General Psychology
Psychology	220	(3)	Human Development
Physical Education	305	(3)	Kinesiology/Biomechanics
Physical Education	315	(3)	Physiology of Exercise
Physical Education	335	(2)	Safety Education and First Aid
Physical Education	360	(3)	Psychological & Sociological Principles of Physical Education

Among REQUIREMENTS FOR GRADUATION:

- Completion of the Liberal Studies Program
- Students must take the BOC examination prior to graduation.

IMPORTANT: CHECK YOUR STATE REQUIREMENTS TO PRACTICE AS AN ATHLETIC TRAINER.

Biology

leading to the Bachelor of Science Degree

Division of Natural Sciences

Required Courses:

Biology	210	(4)	General Biology I w/lab
Biology	211	(4)	General Biology II w/lab
Biology	212	(4)	Botany w/lab
Biology	240	(4)	Microbiology w/lab
Biology	341	(4)	Genetics w/lab
Biology	350	(4)	General Physiology w/lab OR Biology 360 (4) Ecology w/lab
Biology	370	(4)	Cell Biology w/lab
Natural Science	100	(3)	Success in the Sciences
Natural Science	361	(2)	Research Methods I
Natural Science	362	(1)	Research Methods II
Natural Science	395	(2)	Issues in Natural Sciences
Natural Science	461	(1)	Senior Research Project
A Systematics course			(4) to be chosen from the following: BIOL-354 WV Flora, BIOL-355 Mammalogy, BIOL-380 Aquatic Entomology, BIOL-382 Entomology, BIOL-455 Ornithology, or BIOL-420 Parasitology, or BIOL-482 Herpetology.

PLUS from 8-12 hours of elective BIOLOGY or ENVIRONMENTAL SCIENCE courses to obtain a final total of 78 semester hours as indicated on this sheet.

PLUS

ALLIED FIELDS: The following courses are REQUIRED:

Chemistry	200	(4)	General Chemistry I w/lab
Chemistry	210	(4)	General Chemistry II w/lab
Mathematics	141	(3)	Trigonometry
OR			
Mathematics	151	(3)	Pre-calculus
Mathematics	251	(3)	Statistics

PLUS ONE OF THE FOLLOWING SETS OF COURSES:

Chemistry	300	(4)	Principles of Organic Chemistry
Chemistry	305	(4)	Principles of Biochemistry w/lab
OR			
Chemistry	310	(4)	Organic Chemistry I w/lab
Chemistry	311	(4)	Organic Chemistry II w/lab
AND			
Physics	211	(4)	Introduction to Physics w/lab
OR			
Physics	221	(4)	General Physics I w/lab
Physics	222	(4)	General Physics II w/lab

Among REQUIREMENTS FOR GRADUATION:

- Completion of the Liberal Studies Program
- Foreign Language: not required, but handled on advisory basis.

Business Administration

leading to a Bachelor of Science Degree

Division of Social Sciences

Department of Business

Required Courses:

Business	120	(3)	Introduction to Marketing
Business	140	(3)	Introduction to Accounting I
Business	150	(3)	Introduction to Accounting II
Business	160	(3)	Introduction to Management
Business	184	(3)	Computers in Business
Business	235	(3)	Human Resource Management

Business	250	(3)	Ethics in Business
Business	251	(3)	Business Statistics
Business	281	(3)	Business Law I
Business	285	(3)	Business Law II
Business	290	(3)	International Business
Business	300	(3)	Cost Accounting
Business	320	(3)	Business Finance
Business	345	(3)	Marketing Research
Business	355	(3)	Management Science
Business	550	(3)	Strategic Management/Business Policy
Communication	130	(3)	Speak Effectively
Economics	201	(3)	Macro-Economics
Economics	211	(3)	Micro-Economics
Economics	280	(3)	Money and Banking
English	260	(3)	Technical Writing

PLUS ONE COURSE: Chosen from any business or economic course offering (cannot be double-counted Toward another business major):

PLUS FOUR courses in the Social Sciences to be chosen from offerings in:
Geography, History, Political Science, Psychology, Sociology

FOREIGN LANGUAGE/FOREIGN STUDIES: It is recommended that students take one semester of International Studies to fulfill this requirement. Otherwise two semesters of a foreign language (refer to foreign language placement requirements) or an independent foreign studies project is required.

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Chemistry

leading to the Bachelor of Science Degree

Division of Natural Sciences

Required Courses:

Chemistry	200	(4)	General Chemistry I
Chemistry	210	(4)	General Chemistry II
Chemistry	215	(4)	Inorganic Chemistry
Chemistry	250	(4)	Analytical & Instrumental Methods
Chemistry	310	(4)	Organic Chemistry I
Chemistry	311	(4)	Organic Chemistry II
Chemistry	315	(4)	Physical Chemistry
Chemistry	350	(4)	Instrumental Analysis & Design
Chemistry	305	(4)	Principles of Biochemistry OR Chemistry 370 (4) Biochemistry
Computer Science	134	(3)	Introduction to Computers
Mathematics	141	(3)	Trigonometry
Mathematics	151	(3)	Pre-Calculus
Mathematics	231	(4)	Calculus I
Mathematics	251	(3)	Statistics
Natural Science	100	(3)	Success in the Sciences
Natural Science	395	(2)	Issues in the Natural Sciences
Natural Science	361	(2)	Research Methods I
Natural Science	362	(1)	Research Methods II
Natural Science	461	(1)	Senior Research Project
Physics	221	(4)	General Physics I
Physics	222	(4)	General Physics II

PLUS: An Elective Minor (minimum 14 semester hours) to be approved by the advisor and the chair of the Natural Science Division as contributing to the student's career goals. While any of the approved minors listed in the *Academic Program Manual* can, in principle be taken, those in the Education and Natural Science Divisions plus Communication from the Humanities and Political Science, Psychology, Sociology and all Business minors from the Social Sciences Division would certainly be appropriate for careers that chemists have historically chosen.

FOREIGN LANGUAGE: Not required, but at least one semester of German is recommended for students anticipating graduate study in chemistry.

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Christian Studies

leading to a Bachelor of Arts Degree

Division of Humanities

Required Courses:

Business	160	(3)	Introduction to Management
Communication	130	(3)	Speaking Effectively
Communication	150	(3)	Interpersonal Communication
Humanities	100	(3)	Introduction to the Humanities
Humanities	550	(3)	Seminar in the Humanities
Philosophy	190	(3)	Introduction to Philosophy
Psychology	230	(3)	Human Adjustment
Psychology	395	(3)	Issues in Death and Dying
Religion	280	(3)	Religions of the World
Religion	290	(3)	Introduction to the Old Testament
Religion	295	(3)	Introduction to the New Testament
Religion/Philosophy	320	(3)	Philosophy of Religion
Religion	325	(3)	Christian Theology
Religion	350	(3)	Christian Service Practicum
Religion	400	(3)	Topics in Biblical Studies
Sociology	190	(3)	Introduction to Sociology
Sociology	210	(3)	The Family

Plus ONE of the following:

Philosophy	310	(3)	Ethics
Philosophy	340	(3)	Environmental Ethics
Religion/Philosophy	391	(3)	Ethical Perspectives on Health-Related Issues

Recommended, but not required:

Religion	300	(1)	Mentoring Practicum
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Plus ONE of the following tracks:

TRACK ONE: PASTORAL COUNSELING

Religion	301	(2)	Hospice Field Education
Religion	323	(3)	Pastoral Care
Psychology	430	(3)	Counseling Theories and Issues
Sociology	310	(3)	Social Gerontology

TRACK TWO: THEOLOGY AND MINISTRY

Religion	332	(3)	Introduction to Christian Ministry
Religion	335	(3)	Christian Worship and Spirituality
Religion	360	(3)	The Christian Church Through the Ages

TRACK THREE: YOUTH MINISTRY

Religion	333	(3)	Introduction to Preaching/Teaching Ministry
Religion	334	(3)	Introduction to Youth Ministry
Religion	335	(3)	Christian Worship and Spirituality
Religion	360	(3)	The Christian Church Through the Ages
Recreation	210	(3)	Theory and Practice of Recreation Leadership

FOREIGN LANGUAGE: Four semesters of one modern foreign language are required.
(See policy on placement in courses.)

HUMANITIES CORE:

In addition to the requirements listed for each major and the requirements of the college liberal studies program, all students with a Humanities major are required to complete 12 credits in the Humanities Core: 6-8 credits from block I, 2-4 credits from block II, 2-4 credits from block III. Any course used to fulfill a requirement in the liberal studies program may NOT be used to fulfill a requirement in the Humanities core. Other than those courses used to fulfill a liberal studies program requirement, however, students may use courses required in their majors or minors to fulfill Humanities Core requirements as well.

I. CULTURAL HISTORY:

Art 190, 200, 210, 211, English 220, 225, 285, 290, 350, 355, 360, 365, 375, 410, French 100, German 100, History 220, 320, 340, History/Religion 330, 360, International Studies 300, 350, Philosophy/Religion 320, Religion 280, Sociology 230, Communication 190. Students may use six hours of a second foreign language (other than French 100 or German 100) - in addition to the 12 hours of a modern foreign language required in all Humanities majors - in this block. Foreign language courses taken in high school may NOT be used for this requirement (6-8 credits)

II. CRITICAL THINKING PROCESS:

Philosophy 290, Philosophy 310, Philosophy 340, Philosophy 391, Communication 170, Communication 320, Communication 355 (2-4 credits)

III. ARTISTIC EXPRESSION:

Art 100, 115, 118, 120, 125, 135, 140, 150, 215, 220, 225, 235, 250; English 230; MUAP 130, 151, 181, 182, 183, 184, 185, 186, 187, 188, 221, 222, 223, 230, 240, 250, 251, 270; Speech 180, 360 (2-4 credits)

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Communications

leading to a Bachelor of Arts Degree

Division of Humanities

Required Courses:

Communication	100	(1)	Success in Communications
Humanities	100	(2)	Introduction to the Humanities
Communication	130	(3)	Speaking Effectively
Communication	150	(3)	Interpersonal Communications
Communication	155	(3)	Introduction to Broadcasting
Communication	185	(3)	Principles and Practices of Public Relations
Communication	190	(3)	Radio, TV & Film in American Life
Journalism	200	(3)	Introduction to Journalism
Communication	251	(3)	Advertising
English	260	(3)	Technical Writing
Communication	271	(4)	Video Production I: Drama & Documentary
Communication	330	(3)	Dynamics of Advanced Public Speaking
Communication	355	(3)	Mass Communication Law & Ethics
Communication	380	(3)	Communication Theory and Research Methods
Communication	450	(1)	Communication Assessment and Careers
Humanities	550	(3)	Seminar in the Humanities

Plus ONE of the following Ethics courses:

Business	250	(3)	Business Ethics
Philosophy	310	(3)	Ethics
Philosophy	340	(3)	Environmental Ethics
Philosophy	391	(3)	Ethical Perspectives on Health-Related Issues

Plus ONE of the following Cultural Diversity courses:

English	225	(3)	Ethnic Literature in the United States
International Studies	160	(3)	Contemporary European Culture
International Studies	290	(3)	Seminar: European Geography, History & Culture
Religion	280	(3)	Religions of the World
Sociology	230	(3)	Appalachian Studies
Sociology	310	(3)	Social Gerontology
Sociology	320	(3)	Minorities

Plus ONE of the following tracks:

TRACK ONE: SPEECH COMMUNICATION

4 semester hours from the following:

Communication	170	(1)	Intercollegiate Debate
Communication	180	(1)	Individual Events

Plus 2 semester hours from the following:

Communication	160	(1)	Analysis and Performance of Theatre
English	245	(1)	Practicum in Grant Writing
Recreation	351	(1)	Assisting in Event Planning

Plus the following:

Business	160	(3)	Introduction to Management
Business	235	(3)	Human Resource Management

Plus ONE of the following:

Communication	320	(3)	Debate: Critical Thinking/Problem Solving
Communication	360	(3)	Oral Interpretation of Literature

Plus the following:

Communication	500	(3-6)	Internship in Speech
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TRACK TWO: JOURNALISM

4 semester hours from the following:

Journalism	160	(1)	Journalism Practicum (on <i>Battler Columns</i> staff)
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Plus one semester hour from the following:

Journalism	160	(1)	Journalism Practicum (in addition to above)
Recreation	352	(1)	Assisting in Sports Information and Public Relations

Plus the following:

Communication	175	(3)	Broadcast Writing
Journalism	210	(3)	News Editing and Production
English	250	(3)	Advanced Grammar

Plus ONE of the following:

Communication	500	(3-6)	Internship in Speech (preferably off campus at a newspaper)
English	520	(3)	Internship in News Editing and Production (preferably off-campus)

TRACK THREE: PUBLIC RELATIONS

Business	120	(3)	Introduction to Marketing
Art	150	(3)	Digital Arts I: Intro to Digital Arts

Plus 2 semester hours from the following:

Journalism	160	(1)	Journalism Practicum (on <i>Battler Columns</i> staff)
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Plus 1 semester hour from the following:

Journalism	160	(1)	Journalism Practicum (in addition to above)
Recreation	351	(1)	Assisting in Event Planning
Recreation	352	(1)	Assisting in Sports Information and Public Relations

Plus the following:

Journalism	210	(3)	News Editing and Production
Communication	340	(3)	Non-Profit and Corporate PR Case Studies
Communication	500	(3-6)	Internship in Public Relations

TRACK FOUR: VIDEO AND RADIO

Communication	175	(3)	Broadcast Writing
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Plus 4 semester hours from the following:

Communication	220	(1)	Broadcast Practicum (WQAB radio staff or videotaping project)
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Plus the following:

Art	211	(3)	Film
Communication	370	(4)	Video Production II: Experimental Works
Communication	500	(3-6)	Internship in Video/Radio (preferably off-campus)
Communication	500	(3)	Additional internship or field experience (TV or radio station)

TRACK FIVE: HEALTH COMMUNICATION

Health Science	100	(1)	Health Care Terminology
Business	160	(3)	Introduction to Management
Business	170	(3)	Health Care Administration

Plus 2 semester hours from the following:

Communication	170	(1)	Intercollegiate Debate
Communication	180	(1)	Individual Events

Plus the following:

Communication	500	(3-6)	Internship in Health Communication
Health Education	280	(2)	Contemporary Health Issues
Health Education	400	(3)	Community Health Education and Promotion
Recreation	351	(1)	Assisting in Event Planning

FOREIGN LANGUAGE: Four semesters of one modern foreign language are required.

(See policy on placement in courses.)

HUMANITIES CORE: Humanities Core

In addition to the requirements listed for each major and the requirements of the college liberal studies program, all students with a Humanities major are required to complete 12 credits in the Humanities Core: 6-8 credits from block I, 2-4 credits from block II, 2-4 credits from block III. Any course used to fulfill a requirement in the liberal studies program may NOT be used to fulfill a requirement in the Humanities core. Other than those courses used to fulfill a liberal studies program requirement, however, students may use courses required in their majors or minors to fulfill Humanities Core requirements as well.

I. CULTURAL HISTORY:

Art 190, 200, 210, 211, English 220, 225, 285, 290, 350, 355, 360, 365, 375, 410, French 100, German 100, History 220, 320, 340, History/Religion 330, 360, International Studies 300, 350, Philosophy/Religion 320, Religion 280, Sociology 230, Communication 190. Students may use six hours of a second foreign language (other than French 100 or German 100) - in addition to the 12 hours of a modern foreign language required in all Humanities majors - in this block. Foreign language courses taken in high school may NOT be used for this requirement (6-8 credits)

II. CRITICAL THINKING PROCESS:

Philosophy 290, Philosophy 310, Philosophy 340, Philosophy 391, Communication 170, Communication 320, Communication 355 (2-4 credits)

III. ARTISTIC EXPRESSION:

Art 100, 115, 118, 120, 125, 135, 140, 150, 215, 220, 225, 235, 250; English 230; MUAP 130, 151, 181, 182, 183, 184, 185, 186, 187, 188, 221, 222, 223, 230, 240, 250, 251, 270; Speech 180, 360 (2-4 credits)

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Computing

leading to a Bachelor of Science Degree

Division of Natural Sciences

Required Courses:

Computer Science	261	(4)	Computer Science I
Computer Science	262	(4)	Computer Science II
Computer Science	281	(4)	Architecture & Assembler I
Computer Science	311	(3)	Computing Theory I
Computer Science	361	(3)	Operating Systems
English	260	(3)	Technical Writing
Mathematics	166	(3)	Discrete Mathematics I
Natural Science	100	(3)	Success in the Sciences
Natural Science	395	(2)	Issues in the Natural Sciences
Natural Science	361	(2)	Research Methods I

Natural Science	362	(1)	Research Methods II
Natural Science	461	(1)	Senior Research Project

TRACK ONE: COMPUTER SCIENCE

Computer Science	312	(3)	Computing Theory II
Computer Science	350	(3)	Communications
Computer Science	380	(3)	Computer Graphics
Mathematics	231	(4)	Calculus I
Mathematics	232	(4)	Calculus II
Mathematics	333	(4)	Advanced Calculus

PLUS Computer Science Track Electives:
6 Hours of Computer Science > CSCI 134
6 Hours of Math > Math 110

TRACK TWO: ENTERTAINMENT SOFTWARE DEVELOPMENT TRACK

Art	100	(3)	Art Fundamentals
Art	115	(3)	Drawing I
Art	150	(3)	Introduction to Digital Arts
Art	215	(3)	Drawing II
Art	250	(3)	Media Computation
Art	255	(3)	WebMastering
Computer Science	312	(3)	Theory II
Computer Science	350	(3)	Communications
Computer Science	380	(3)	Computer Graphics
Computer Science	381	(3)	Computer Animation
Mathematics	231	(4)	Calculus I
Mathematics	232	(4)	Calculus II
Physics	221	(4)	General Physics I
Physics	222	(4)	General Physics II
Computer Science	391	(3)	Software Engineering I
Computer Science	392	(3)	Software Engineering II
Computer Science	396	(3)	Video Game Development I
Computer Science	397	(3)	Video Game Development II
Computer Science	398	(3)	Video Game Development III
Computer Science	399	(3)	Video Game Development IV

TRACKR: INFORMATION SYSTEMS TRACK

Business	160	(3)	Intro Management
Business	235	(3)	Human Resource Management
Business	251	(3)	Business Statistics
Business/CSCI	341	(3)	Management Information Systems
Business	343	(3)	Database Management Systems
Business	361	(3)	eCommerce
Computer Science	451	(3)	Networking

PLUS at least 12 credits from:

Business	120	(3)	Introduction to Marketing
Business	140	(3)	Accounting I
Business	150	(3)	Accounting II
Business	281	(3)	Business Law I
Business	285	(3)	Business Law II
Computer Science	390	(3)	ST: Data Mining
Economics	201	(3)	Macro Economics
Economics	211	(3)	Micro Economics

TRACK FOUR: INFORMATION TECHNOLOGY TRACK

Computer Science	282	(3)	Architecture & Assembler II
Computer Science	350	(3)	Communications
Computer Science	362	(3)	Systems Programming
Computer Science	380	(3)	Computer Graphics
Computer Science	381	(3)	Computer Animation
Computer Science	451	(3)	Networking

Mathematics	167	(3)	Discrete Math II
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PLUS TRACK ELECTIVES:

6 Hours of Computer Science > CSCI 134

6 Hours of Math > Math 110

TRACK FIVE: SOFTWARE ENGINEERING TRACK

Computer Science	312	(3)	Computing Theory II
Computer Science	343	(3)	Database Management Systems
Computer Science	380	(3)	Computer Graphics
Computer Science	390	(3)	ST: Computer Language
Computer Science	391	(3)	Software Engineering I
Computer Science	392	(3)	Software Engineering II
Computer Science	451	(3)	Networking

PLUS at least 12 credits from:

Business	361	(3)	eCommerce
Computer Science	282	(3)	Architecture & Assembler II
Computer Science	350	(3)	Communications
Computer Science	362	(3)	Systems Programming
Computer Science	390	(3)	ST: Grid Computing
Computer Science	390	(3)	ST: Data Mining
Computer Science	400	(1)	Teaching Practicum 3 hrs MAX
Mathematics	167	(3)	Discrete Math II
Mathematics	231	(4)	Calculus I
Mathematics	232	(4)	Calculus II

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Criminal Justice

leading to a Bachelor of Arts Degree

Division of Social Sciences

Required Courses:

Criminal Justice	200	(3)	Introduction to Criminal Justice
Criminal Justice	210	(3)	Crime and Deviant Behavior
Criminal Justice	300	(3)	Law Enforcement and Police Operations
Criminal Justice	320	(3)	Correctional Systems
Criminal Justice	390	(3)	Special Topics in Criminal Justice
Criminal Justice	400	(3)	Criminal Investigations
Criminal Justice	410	(3)	Ethics in Criminal Justice
Criminal Justice	500	(3)	Field Practicum in Criminal Justice
Criminal Justice	550	(3)	Seminar in Criminal Justice
Political Science	200	(3)	American National Government
Political Science	210	(3)	State and Local Government
Political Science	250	(3)	Introduction to Law and Judicial Process
Political Science	310	(3)	Constitutional Law
Psychology	260	(3)	Statistics and Data Analysis
Psychology	400	(3)	Social Psychology
Psychology	420	(3)	Abnormal Psychology
Sociology	190	(3)	Introduction to Sociology
Sociology	230	(3)	Social Problems
Sociology	320	(3)	Minorities
Sociology	350	(3)	Criminology
Spanish	110	(3)	Elementary Spanish I
Spanish	111	(3)	Elementary Spanish II
Spanish	220	(3)	Intermediate Spanish I
Spanish	221	(3)	Intermediate Spanish II

Allied Fields: Four courses in TWO allied fields (two courses in each field) to be chosen from among offerings in: Economics, Geography, History, Political Science, Sociology

Foreign Language: Four semesters of one modern foreign language are required (see policy on placement in courses.)

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Education

Students in teacher education earn a bachelor's degree and are eligible for certification to teach in West Virginia and other states as arranged through reciprocity by the West Virginia Department of Education(WVDE). All teacher education programs are approved by the West Virginia Department of Education and are accredited by the Teacher Education Accreditation Council (TEAC).

- The Department of Education offers teaching specializations in
 - ✓ Elementary Education K-6,
 - ✓ Secondary Education
 - ✓ Music Education
 - ✓ Physical Education.
- Elementary Education results in a K-6 certification. Additional fields in Special Education in Learning Disabilities K-Adult, Mentally Impaired K-Adult and Multicategorical K-Adult are available as endorsements to the Elementary K-6 program and are also available as second fields to Secondary content specializations.
- Secondary Education has the specializations in Social Studies 5-Adult, General Science 5-Adult, Chemistry 9-Adult, Biology 9-Adult, English 5-Adult, General Mathematics 5-Adult, and Mathematics 5-Adult, as well as certification in Social Studies, General Science, Mathematics and English for grades 5-9, which may be added to the elementary or secondary certification.
- In addition, PreK-Adult specializations include Physical Education PreK-Adult, Health Education PreK-Adult, and Music PreK-Adult. School Nurse PreK-Adult is also a program available for licensure through Alderson-Broadbent College.
- All students in teacher education programs must take a practice Pre-Professional Skills Test (PPST) during freshman orientation. Teacher education students are required to take special remedial courses if practice test results indicate a need. Students must pass the official PPST test offered by Educational Test Service (ETS), the first try being prior to the first semester of the sophomore year, with remediation and retakes required each following semester.
- In order to be certified as a teacher, the student must be officially admitted to the Teacher Education Program prior to the senior year; maintain a 2.5 GPA overall and in content specialty and professional education studies. Students must earn a minimum of a "C" in all Professional Education courses. Students are also limited to two attempts per course.
- In addition students must pass the ETS Praxis II Content tests; the Principles of Learning and Teaching Examination; complete student teaching with at least a grade of C; and receive a bachelor's degree
- Each teaching specialization is coordinated by an advisor within the respective department in which the discipline is housed. Programs of elementary education and special education are administered within the Department of Education.

Requirements To Be Admitted To Teacher Education

Students must achieve Full Admission prior to senior methods courses. When the student first comes to Alderson-Broadbent College, the student will not formally be an education major until admitted to Teacher Education by a majority vote of the Teacher Education Committee. A student must be admitted, either with full or provisional admission, by a vote during specified Teacher Education Committee meetings prior to their entering senior methods courses. Before a student may make application for admission into Teacher Education, the following requirements must be met:

For Full Admission

1. Completion of at least forty-eight semester hours

2. Minimum of 2.5 GPA on all work attempted (including all credit taken elsewhere)
3. Minimum of 2.5 GPA in each content specialty area
4. Minimum of 2.5 GPA in professional education
5. Minimum of 2.0 GPA in Liberal Studies
6. Passed all pre-professional skills components; that is,
 - ETS Pre-professional Skills Test (PPST) at appropriate cut-off score
 - Successful completion of Communication 130 and Education 180 and 280.
 - Passed Education 200 and Education 270 with a "C" earned in each.
7. Completion of the application form, which includes two essays relevant to your plans to enter the profession of teaching.
8. Completion of a mini-portfolio, consisting of five or six items documenting mastery of specific skills necessary at this level of the program.
9. Receipt of Teacher Education reference forms from three faculty members at the College, including your content specialty advisor and at least one professional education faculty member.
10. Meet the criteria of personal characteristics and technical standards determined to be necessary for successful performance in teaching as indicated on the reference forms and as determined by the Teacher Education Committee.

For Provisional Admission

Requirements for provisional admission are the same as previously listed, except in relation to items listed below. Students may request provisional admission due to the following reasons:

- Student lacks minimum of a 2.5 GPA in a specified course work component(s) (See above items 2-5), but has the potential, and must reach 2.5 by the beginning of the fall semester of the senior year, or
- Student has taken, but NOT successfully passed, the Pre-Professional Skills Tests (PPST). Tests must be passed by the beginning of the fall semester of the senior year, or
- Student has not completed, but completion will occur by the beginning of the fall semester of the senior year, of Communication 130 or Education 180 and 280.

A letter from the student must accompany the regular application packet to note the reason and rationale for requesting the student admission under provisional admission. All requirements must be completed by the beginning of the fall semester of the senior year.

Requirements For Student Teaching

Criteria for Admission to Student Teaching must be met the semester before student teaching:

1. Minimum 2.5 GPA in each content specialty area
2. Minimum 2.5 GPA in professional education
3. Minimum 2.5 GPA overall, including all credit taken elsewhere
4. Minimum 2.0 in Liberal Studies
5. Completion of all content specialty courses prior to student teaching, unless the specialty area advisor and the Department of Education chairperson approve otherwise, with disclosure to the county school board contact.
6. At least a "C" in all Professional Education classes. A limit of two attempts per class to meet the "C" requirement.

Requirements for Graduation

Graduation and being recommended for West Virginia Certification from Alderson-Broadus College are not the same. Graduation criteria are:

1. Minimum 2.5 GPA in each content specialty area
2. Minimum 2.00 GPA in Liberal Studies
3. Minimum 2.5 GPA in the professional education, including student teaching
4. Minimum 2.5 GPA overall, including all credit taken elsewhere
5. Attempted the appropriate Praxis II Content Specialization Test(s) and Principles of Learning and Teaching
6. Minimum of "C" in Student Teaching

Requirements To Be Certified in West Virginia and be considered a "Program-Completer"

Certification requirements are:

1. Minimum 2.5 GPA in each content specialty area
2. Minimum 2.00 in Liberal Studies
3. Minimum 2.5 GPA in professional education, including student teaching
4. Minimum 2.5 GPA overall, including all credit taken elsewhere
5. Minimum of "C" in Student Teaching
6. Successfully passed the appropriate Praxis II Content Specialization Test(s) at passing scores and Principles of Learning and Teaching

It is possible for a student to graduate with a degree in Education from Alderson-Broaddus College and not be able to become certified in West Virginia or be considered a program-completer.

Elementary Education

Elementary Education K-6 Teaching Specialization

leading to Bachelor of Arts degree

Division of Education and Special Programs

Department of Education

Required Courses:

Social Sciences: (2.0 GPA required)

Geography	200	(3)	Principles of Physical & Human Geography
History	200	(3)	History of the United States to 1877
History	210	(3)	History of the United States Since 1877
Political Science	200	(3)	American National Government
Sociology	190	(3)	Introduction to Sociology
Sociology	230	(3)	Appalachian Studies
Sociology	320	(3)	Minorities

PLUS

Mathematics: (2.0 GPA required)

Mathematics	113	(3)	College Algebra
Mathematics	221	(3)	Mathematics for Teachers I
Mathematics	222	(3)	Mathematics for Teachers II

PLUS

Sciences: (2.0 GPA required)

Environmental Science	210	(4)	Environmental Science I
Natural Science	180	(1)	Physical Science: Astronomy & Lab
Natural Science	181	(1)	Physical Science: Geology & Lab
Natural Science	182	(1)	Physical Science: Meteorology & Lab
Natural Science	185	(4)	General Science, Science and Society

PLUS

Special Content Courses: (2.0 GPA required)

Art	245	(2)	Theory and Methods of Art Education
Health Education	350	(2)	School Health & School Health Programs
Music Education	200	(3)	Music for Classroom Teachers
Physical Education	220	(2)	Elementary Physical Education

PLUS

Content Specific Methods Courses: (2.5 GPA required)

Education	304	(3)	Teaching Mathematics in Elementary School
Education	305	(2)	Sciences in the Elementary School
Education	342	(2)	Social Studies in the Elementary School
Reading	220	(3)	Children's Media
Reading	320	(3)	Reading in the Elementary School
Reading	322	(3)	Language Arts in the Elementary School
Reading	450	(3)	Corrective Techniques in Reading Instruction

PLUS

The Professional Education requirements for all Elementary Education teaching specializations

Education	180	(1)	21st Century Learning Tools: Computer Skills for Teachers
Education	200	(3)	Foundations of American Education
Education	270	(3)	Development in Early Childhood Through Adolescence
Education	280	(1)	21st Century Learning Tools: Instructional Tech Resources
Education	290	(3)	Psych Foundations in Early Childhood Through Adolescence
Education	310	(3)	Elementary General Methods
Education	319	(2)	Laboratory Experience - Elementary (K-6) Level
Education	360	(2)	Educational Issues in a Multicultural and Global Society
Education	380	(.5)	21st Century Learning Tools: Integrating Tech into Teaching
Education	480	(.5)	Professional Communication Using Technology
Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Education	500	(12)	Student Teaching

Education 550 (1) Seminar in the Philosophy of Teaching

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Students may choose a second teaching specialization to be coupled with Elementary K-6 from the following, which are currently offered by the College.

General Science, Grades 5-9
English, Grades 5-9
Mathematics, Grades 5-9
Social Studies, Grades 5-9
Special Education - Specific Learning Disabilities, Grades K-6
Special Education - Mentally Impaired, Grades K-6
Special Education - Multicategorical, Grades K-6

Special Education

Mental Impairment K-6 Teaching Specialization

Must be coupled with Elementary K-6 Specialization

Required Courses:

Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	300	(3)	Education of the Mentally Impaired
Special Education	310	(3)	Diagnosis, Prescription, and Assessment Techniques
Special Education	330	(3)	Behavior Management
Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Special Education	350	(3)	Instructional Strategies: Mild-Moderate Handicap Conditions
Special Education	400	(3)	Applied Practicum in Special Education

Special Education

Multicategorical Special Education K-6 Teaching Specialization

Must be coupled with Elementary K-6 Specialization

Required Courses:

Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	290	(3)	Introduction to Specific Learning Disabilities
Special Education	300	(3)	Education of the Mentally Impaired
Special Education	310	(3)	Diagnosis, Prescription, and Assessment Techniques
Special Education	320	(3)	Introduction to Behavior Disorders
Special Education	330	(3)	Behavior Management
Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Special Education	350	(3)	Instructional Strategies: Mild-Moderate Handicap Conditions
Special Education	400	(3)	Applied Practicum in Special Education

Special Education

Specific Learning Disabilities K-6 Teaching Specialization

Must be coupled with Elementary K-6 Specialization

Required Courses:

Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	290	(3)	Introduction to Specific Learning Disabilities
Special Education	310	(3)	Diagnosis, Prescription, and Assessment Techniques
Special Education	330	(3)	Behavior Management
Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Special Education	350	(3)	Instructional Strategies: Mild-Moderate Handicap Conditions
Special Education	400	(3)	Applied Practicum in Special Education

Secondary Education

leading to a Bachelor of Arts or a Bachelor of Science Degree

Division of Education and Special Programs

Department of Education

This major offer programs leading to certification to teach in grades 5 through Adult, 9 through Adultt.

The Professional Education requirements for all secondary teaching specializations are as follows:

Education	180	(1)	21st Century Learning Tools: Computer Skills for Teachers
Education	200	(3)	Foundations of American Education
Education	270	(3)	Development in Early Childhood through Adolescence
Education	280	(2)	21st Century Learning Tools: Instructional Tech Resources
Education	290	(3)	Psych Foundations in Early Childhood through Adolescence
Education	330	(3)	Secondary General Methods
Education	334	(1)	Science Methods: Grade 9-Adult Learners
Education	339	(1)	Lab - Adolescent (9-Adult) Level
Education	360	(2)	Educational Issues in a Multicultural and Global Society
Education	380	(.5)	21st Century Learning Tools: Integrating Tech into Teaching
Education	480	(.5)	Professional Communication Using Technology
Reading	300	(3)	Reading in the Secondary Schools
Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Education	500	(12)	Student Teaching
Education	550	(1)	Seminar in the Philosophy of Teaching

Plus methods courses in the specific teaching fields of (1) or (2) credits each.

Teaching specializations for Secondary and Pre-K-Adult Education, which are currently offered by the College are listed below. Those with a * require a second teaching specialization.

- *Biological Science, Grades 9-Adult
- *Chemistry, Grades 9-Adult
- *English, Grades 5-9
- English, Grades 5-Adult
- *General Science, Grades 5-9
- General Science, Grades 5-Adult
- *Health Education, Grades PreK-Adult (Must be attached to Physical Education major.)
- *Mathematics, Grades 5-9
- Music Education, Grades PreK-Adult
- *General Mathematics, Grades 5-Adult
- Mathematics, Grades 5-Adult
- Physical Education , Grades PreK-Adult
- School Nurse, PreK-Adult
- *Social Studies, Grades 5-9
- Social Studies, Grades 5-Adult
- *Special Education - Specific Learning Disabilities, Grades K-6
- *Special Education - Specific Learning Disabilities, Grades 5-Adult
- *Special Education - Mentally Impaired, Grades K-6
- *Special Education - Mentally Impaired, Grades 5-Adult
- *Special Education - Multicategorical, Grades K-6
- *Special Education - Multicategorical, Grades 5-Adult

Biology 9-Adult Teaching Specialization

Must be coupled with Chemistry 9-Adult or General Science 5-Adult specialization.

Required Courses:

Science Core: Required of all Science 5-Adult and 9-Adult Tracks:

Biology	210	(4)	General Biology I
Biology	211	(4)	General Biology II
Chemistry	200	(4)	General Chemistry I
Chemistry	210	(4)	General Chemistry II
Education	180	(1)	21st Century Learning Tools: Computer Skills for Teachers
Education	280	(1)	21st Century Learning Tools: Tech Resources
Education	380	(.5)	21st Century Learning Tools: Integrating Tech into Teaching
Education	480	(.5)	Professional Communication Using Technology
Environmental Science	210	(4)	Environmental Science I
Mathematics	113	(3)	College Algebra
Mathematics	141	(3)	Trigonometry

Mathematics	151	(3)	Pre-Calculus
Natural Science	361	(2)	Research Methods I
Natural Science	362	(1)	Research Methods II
Natural Science	461	(1)	Senior Research Project
Physics	221	(4)	General Physics I
Physics	222	(4)	General Physics II
PLUS			
Biology	240	(4)	Microbiology
Biology	245	(2)	Evolution
Biology	341	(3)	Genetics
Biology	350	(4)	General Physiology
Biology	360	(4)	Ecology
Chemistry	291	(3)	Principles of Organic and Biological Chemistry
Mathematics	251	(3)	Statistics
Natural Science	181	(1)	Physical Science: Geology

PLUS

The Professional Education requirements for all secondary teaching specializations:

Education	180	(1)	21st Century Learning Tools: Computer Skills for Teachers
Education	200	(3)	Foundations of American Education
Education	270	(3)	Development in Early Childhood through Adolescence
Education	280	(2)	21st Century Learning Tools: Instructional Tech Resources
Education	290	(3)	Psych Foundations in Early Childhood through Adolescence
Education	320	(1)	Middle Schools: Design and Issues
Education	329	(1)	Lab – Middle Childhood (5-9) Level
Education	330	(3)	Secondary General Methods
Education	334	(1)	Science Methods: Grade 9-Adult Learners
Education	339	(1)	Lab - Adolescent (9-Adult) Level
Education	360	(2)	Educational Issues in a Multicultural and Global Society
Education	380	(.5)	21st Century Learning Tools: Integrating Tech into Teaching
Education	480	(.5)	Professional Communication Using Technology
Reading	300	(3)	Reading in the Secondary Schools
Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Education	500	(12)	Student Teaching
Education	550	(1)	Seminar in the Philosophy of Teaching

PLUS

Education	334	(1)	Science Methods - Grade 9-Adult Learners
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(This teaching specialization does not require Education 320 and 329.)

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Chemistry 9-Adult Teaching Specialization

Must be coupled with Biology 9-Adult or General Science 5-Adult specialization

Required Courses:

Science Core: Required of all Science 5-Adult and 9-Adult Tracks:

Biology	210	(4)	General Biology I
Biology	211	(4)	General Biology II
Chemistry	200	(4)	General Chemistry I
Chemistry	210	(4)	General Chemistry II
Education	180	(1)	21st Century Learning Tools: Computer Skills for Teachers
Education	280	(1)	21st Century Learning Tools: Tech Resources
Education	380	(.5)	21st Century Learning Tools: Integrating Techno Teaching
Education	480	(.5)	Professional Communication Using Technology
Environmental Science	210	(4)	Environmental Science I
Mathematics	113	(3)	College Algebra
Mathematics	141	(3)	Trigonometry
Mathematics	151	(3)	Pre-Calculus
Natural Science	361	(2)	Research Methods I

Natural Science	362	(1)	Research Methods II
Natural Science	461	(1)	Senior Research Project
Physics	221	(4)	General Physics I
Physics	222	(4)	General Physics II

PLUS

Chemistry	250	(4)	Analytical and Instrumental
Chemistry	300	(3)	Principles of Organic Chemistry
Chemistry	305	(4)	Principles of Biochemistry
Chemistry	315	(4)	Physical Chemistry
Mathematics	231	(4)	Calculus

PLUS

The Professional Education requirements for all secondary teaching specializations:

Education	180	(1)	21st Century Learning Tools: Computer Skills for Teachers
Education	200	(3)	Foundations of American Education
Education	270	(3)	Development in Early Childhood through Adolescence
Education	280	(2)	21st Century Learning Tools: Instructional Tech Resources
Education	290	(3)	Psych Foundations in Early Childhood through Adolescence
Education	330	(3)	Secondary General Methods
Education	334	(1)	Science Methods: Grade 9-Adult Learners
Education	339	(1)	Lab - Adolescent (9-Adult) Level
Education	360	(2)	Educational Issues in a Multicultural and Global Society
Education	380	(.5)	21st Century Learning Tools: Integrating Tech into Teaching
Education	480	(.5)	Professional Communication Using Technology
Reading	300	(3)	Reading in the Secondary Schools
Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Education	500	(12)	Student Teaching
Education	550	(1)	Seminar in the Philosophy of Teaching

PLUS

Education	334	(1)	Science - Grades 9-Adult Learners
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(This teaching specialization does not require Education 320 and 329.)

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

English Programs (5-9 and 5-Adult)

Transfer Credit Policy

In order to receive credit for program requirements in the Secondary Education - English program (both 5 - 9 and 5 - Adult) for courses taken elsewhere, a student must do the following:

- Submit detailed syllabi for all courses that the students wants to use to meet requirements of the program. If, in the judgment of the program coordinator, any of these syllabi do not show a reasonable match with the course here, those particular courses will not be considered as possibly fulfilling program requirements here even if the student is given college transfer credit for them. The credit will be regarded as elective credit only, and the student will be required to take the courses in question here. If the student cannot provide a detailed syllabus for a course, the course will not even be considered for program transfer credit.
- Pass examinations in all areas covered by courses in which the syllabi are judged to be a reasonable match for courses offered here. The departmental language proficiency examination (including the essay) will be used to determine competence for composition courses. Examinations based on the content presented in courses offered here will be used to determine competence in literature and other areas. If the student fails to perform satisfactorily (at the C level or above) on any of these examinations, he or she will be required to take the course in question here even if the student is given college transfer credit for it, and even though the course taken elsewhere appears to be similar to the course offered here. The credit will be regarded as elective credit only.

English 5-9 Teaching Specialization

must be coupled with a 9-Adult, 5-Adult, or K-6 specialization

Required Courses:

English	190	(3)	Freshman Composition
English	200	(3)	Advanced Composition
English	225	(3)	Ethnic Literature in the United States
English	230	(3)	Creative Writing
English	250	(3)	Advanced Grammar
English	281	(3)	Forms of Literature: Drama
English	283	(3)	Forms of Literature: Fiction
English	284	(3)	Forms of Literature: Poetry
English	290	(3)	Shakespeare
English	350	(3)	Early American Literature
Reading	240	(3)	Media for Young People
Communication	130	(3)	Speaking Effectively
Communication	360	(3)	Oral Interpretation

Professional education requirements for Secondary Education

or

Professional education requirements for K-6 Elementary Education

Education	321	(2)	English Methods - Grade 5-9 Learners
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English 5-Adult Teaching Specialization**Required Courses:**

English	190	(3)	Freshman Composition
English	200	(3)	Advanced Composition
English	225	(3)	Ethnic Literature in the United States
English	230	(3)	Creative Writing
English	250	(3)	Advanced Grammar
English	281	(3)	Forms of Literature: Drama
English	283	(3)	Forms of Literature: Fiction
English	284	(3)	Forms of Literature: Poetry
English	290	(3)	Shakespeare
English	350	(3)	Early American Literature
English	355	(3)	Modern American Literature
English	360	(3)	World Literature
English	375	(3)	British Literature Since 1785
English	410	(3)	Development of the English Language
Communication	130	(3)	Speaking Effectively
Communication	360	(3)	Oral Interpretation
Humanities	550	(3)	Seminar in the Humanities
Journalism	200	(3)	Introduction to Journalism
Reading	240	(3)	Media for Young People

Professional Education requirements for all secondary teaching specializations

Education	180	(1)	21st Century Learning Tools: Computer Skills for Teachers
Education	200	(3)	Foundations of American Education
Education	270	(3)	Development in Early Childhood through Adolescence
Education	280	(2)	21st Century Learning Tools: Instructional Tech Resources
Education	290	(3)	Psych Foundations in Early Childhood through Adolescence
Education	320	(1)	Middle Schools: Design and Issues
Education	321	(2)	English Methods - Grade 5-9 Learners
Education	329	(2)	Middle Schools: Grade 5-9 Learners
Education	330	(3)	Secondary General Methods
Education	331	(1)	English Methods - Grade 9-Adult Learners
Education	339	(1)	Lab - Adolescent (9-Adult) Level
Education	360	(2)	Educational Issues in a Multicultural and Global Society
Education	380	(.5)	21st Century Learning Tools: Integrating Tech into Teaching
Education	480	(.5)	Professional Communication Using Technology

Reading	300	(3)	Reading in the Secondary Schools
Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Education	500	(12)	Student Teaching
Education	550	(1)	Seminar in the Philosophy of Teaching

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Mathematics 5-9 Teaching Specialization

Must be coupled with another 9-Adult, 5-Adult, or K-6 specialization

Required Courses:

Mathematics	113	(3)	College Algebra
Mathematics	151	(3)	Pre-Calculus
Mathematics	166	(3)	Discrete Mathematics I
Mathematics	167	(3)	Discrete Mathematics II
Mathematics	251	(3)	Statistics
Mathematics	312	(3)	Algebraic Structures
Mathematics	371	(3)	Principles of Geometry
Natural Science	185	(4)	General Science, Science and Society

PLUS

Professional Education Requirements for Secondary Education

or

Professional Education Requirements for K-6 Elementary Education

plus: Education	322	(1)	Mathematics Methods - Grade 5-9 Learners
and			
Education	304	(3)	Mathematics in Elementary School
or			
Education	332	(2)	Mathematics Methods: Grades 9 – Adult Learners

General Mathematics 5-Adult Teaching Specialization

Must be couple with another teaching specialization

Required Courses:

Mathematics	167	(3)	Discrete Mathematics II
Business	355	(3)	Management Science,
Or			
Computer Science	261	(3)	Computer Science I
Mathematics	113	(3)	College Algebra
Mathematics	141	(3)	Trigonometry
Mathematics	151	(3)	Pre-Calculus
Mathematics	166	(3)	Discrete Mathematics I
Mathematics	251	(3)	Statistics
Mathematics	312	(3)	Algebraic Structures
Mathematics	371	(3)	Principles of Geometry
Natural Science	361	(2)	Research Methods I
Natural Science	362	(1)	Research Methods II
Natural Science	461	(1)	Senior Research Project
Physics	211	(4)	Introduction to Physics

Professional Education requirements for all secondary teaching specializations

Education	180	(1)	21st Century Learning Tools: Computer Skills for Teachers
Education	200	(3)	Foundations of American Education
Education	270	(3)	Development in Early Childhood through Adolescence
Education	280	(2)	21st Century Learning Tools: Instructional Tech Resources
Education	290	(3)	Psych Foundations in Early Childhood through Adolescence
Education	320	(1)	Middle Schools: Design and Issues
Education	321	(2)	English Methods - Grade 5-9 Learners
Education	329	(2)	Middle Schools: Grade 5-9 Learners
Education	330	(3)	Secondary General Methods

Education	331	(1)	English Methods - Grade 9-Adult Learners
Education	339	(1)	Lab - Adolescent (9-Adult) Level
Education	360	(2)	Educational Issues in a Multicultural and Global Society
Education	380	(.5)	21st Century Learning Tools: Integrating Tech into Teaching
Education	480	(.5)	Professional Communication Using Technology
Reading	300	(3)	Reading in the Secondary Schools
Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Education	500	(12)	Student Teaching
Education	550	(1)	Seminar in the Philosophy of Teaching
PLUS			
Education	322	(1)	Mathematics Methods - Grade 5-9 Learners
Education	332	(2)	Mathematics Methods - Grade 9-Adult Learners

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Mathematics 5-Adult Teaching Specialization

Required Courses:

Computer Science	261	(3)	Computer Science I
Computer Science	262	(3)	Computer Science II
Mathematics	113	(3)	College Algebra
Mathematics	141	(3)	Trigonometry
Mathematics	151	(3)	Pre-Calculus
Mathematics	166	(3)	Discrete Mathematics I
Mathematics	167	(3)	Discrete Mathematics II
Mathematics	231	(4)	Calculus I
Mathematics	232	(4)	Calculus II
Mathematics	251	(3)	Statistics
Mathematics	312	(3)	Algebraic Structures
Mathematics	315	(3)	Linear Algebra
Mathematics	333	(4)	Advanced Calculus
Mathematics	371	(3)	Principles of Geometry
Physics	211	(4)	Introduction to Physics
Natural Science	361	(2)	Research Methods I
Natural Science	362	(1)	Research Methods II
Natural Science	461	(1)	Senior Research Project

Plus Professional education requirements for Secondary Education

Plus

Education	322	(1)	Mathematics Methods - Grade 5-9 Learners
Education	332	(2)	Mathematics Methods - Grade 9-Adult Learners

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

General Science 5-9 Teaching Specialization:

Must be coupled with another 9-Adult, 5-Adult, or K-6 specialization

Required Courses:

Astronomy	190	(4)	Introduction to Astronomy
Biology	210	(4)	General Biology I
Biology	211	(4)	General Biology II
Chemistry	190	(4)	Introduction to Chemistry
Environmental Science	210	(4)	Environmental Science I
Geology	190	(4)	Introduction to Geology
Mathematics	222	(3)	Math for Teachers II
Natural Science	182	(1)	Physical Science: Meteorology
Physics	211	(4)	Introduction to Physics

PLUS:

Professional education requirements for 9-Adult, 5-Adult Secondary Education
or
K-6 Elementary Education

PLUS:

Education 324 (1) Special Methods in Teaching Science to Middle Childhood Learners

General Science 5-Adult Teaching Specialization

Must be coupled with Biology 9-Adult or Chemistry 9-Adult specialization

Required Courses:

Astronomy	190	(4)	Introduction to Astronomy
Chemistry	291	(4)	Principles Organic and Biological Chemistry
OR			
Chemistry	300	(3)	Principles of Organic Chemistry
AND			
Chemistry	305	(4)	Principles of Biochemistry)
Geology	190	(4)	Introduction to Geology
Mathematics	251	(3)	Statistics
Natural Science	182	(1)	Physical Science: Meteorology

Professional Education requirements for all secondary teaching specializations:

Education	180	(1)	21st Century Learning Tools: Computer Skills for Teachers
Education	200	(3)	Foundations of American Education
Education	270	(3)	Development in Early Childhood through Adolescence
Education	280	(2)	21st Century Learning Tools: Instructional Tech Resources
Education	290	(3)	Psych Foundations in Early Childhood through Adolescence
Education	330	(3)	Secondary General Methods
Education	334	(1)	Science Methods: Grade 9-Adult Learners
Education	339	(1)	Lab - Adolescent (9-Adult) Level
Education	360	(2)	Educational Issues in a Multicultural and Global Society
Education	380	(.5)	21st Century Learning Tools: Integrating Tech into Teaching
Education	480	(.5)	Professional Communication Using Technology
Reading	300	(3)	Reading in the Secondary Schools
Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Education	500	(12)	Student Teaching
Education	550	(1)	Seminar in the Philosophy of Te
PLUS			
Education	324	(1)	Science Methods - Grade 5-9 Learners
Education	334	(1)	Science Methods - Grade 9-Adult Learners

PLUS: Science Core- Required of all Science 5-Adult and 9-Adult Tracks:

Biology	210	(4)	General Biology I
Biology	211	(4)	General Biology II
Chemistry	200	(4)	General Chemistry I
Chemistry	210	(4)	General Chemistry II
Education	180	(1)	21st Century Learning Tools: Computer Skills for Teachers
Education	280	(1)	21st Century Learning Tools: Tech Resources
Education	380	(.5)	21st Century Learning Tools: Integrating Tech into Teaching
Education	480	(.5)	Professional Communication Using Technology
Environmental Science	210	(4)	Environmental Science I
Mathematics	113	(3)	College Algebra
Mathematics	141	(3)	Trigonometry
Mathematics	151	(3)	Pre-Calculus
Natural Science	361	(2)	Research Methods I
Natural Science	362	(1)	Research Methods II
Natural Science	461	(1)	Senior Research Project
Physics	221	(4)	General Physics I

Physics	222	(4)	General Physics II
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Social Studies 5-9 Teaching Specialization

Must be coupled with another 9-Adult, 5-Adult, or K-6 area

Required Courses:

Economics	211	(3)	Micro-Economics
Geography	200	(3)	Principles of Physical and Human Geography
Geography	300	(3)	World Geography
History	150	(3)	Civilization I
History	160	(3)	Civilization II
History	200	(3)	History of United States to 1877
History	210	(3)	History of United States Since 1877
Political Science	200	(3)	American National Government
Sociology	230	(3)	Appalachian Studies
PLUS ONE from the following:			
History	400	(3)	The United States in the 20 th Century
History	410	(3)	United States Diplomatic History
Political Science	330	(3)	International Relations
PLUS ONE from the following:			
Psychology	400	(3)	Social Psychology
Communication	150	(3)	Interpersonal Communication
Sociology	240	(3)	Social Problems

PLUS

Professional education requirements for Secondary Education

Or

Professional education requirements for Elementary Education

PLUS:

Education	325	(1)	Social Studies Methods - Grade 5-9 Learners
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Social Studies 5-Adult Teaching Specialization:

Required Courses:

Economics	201	(3)	Introduction to Macroeconomics
Economics	211	(3)	Introduction to Microeconomics
Geography	200	(3)	Principles of Physical and Human Geography
Geography	300	(3)	World Geography
History	150	(3)	Civilization I
History	160	(3)	Civilization II
History	200	(3)	History of the United States to 1877
History	210	(3)	History of United States Since 1877
History	400	(3)	The United States in the 20th Century
History	410	(3)	United States Diplomatic History
History	550	(3)	Seminar in History and Political Science
Political Science	200	(3)	American National Government
Political Science	210	(3)	State & Local Government
Psychology	190	(3)	General Psychology
Psychology	400	(3)	Social Psychology
Sociology	190	(3)	Introduction to Sociology
Sociology	230	(3)	Appalachian Studies

PLUS ONE course from the following:

History	340	(3)	Europe in the 17th and 18th Centuries
History	420	(3)	Europe in the 19th and 20th Centuries

PLUS ONE course from the following:

Sociology	240	(3)	Social Problems
Sociology	320	(3)	Minorities

PLUS

Professional Education requirements for all secondary teaching specializations:

Education	180	(1)	21st Century Learning Tools: Computer Skills for Teachers
Education	200	(3)	Foundations of American Education
Education	270	(3)	Development in Early Childhood through Adolescence
Education	280	(2)	21st Century Learning Tools: Instructional Tech Resources
Education	290	(3)	Psych Foundations in Early Childhood through Adolescence
Education	330	(3)	Secondary General Methods
Education	334	(1)	Science Methods: Grade 9-Adult Learners
Education	339	(1)	Lab - Adolescent (9-Adult) Level
Education	360	(2)	Educational Issues in a Multicultural and Global Society
Education	380	(.5)	21st Century Learning Tools: Integrating Tech into Teaching
Education	480	(.5)	Professional Communication Using Technology
Reading	300	(3)	Reading in the Secondary Schools
Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Education	500	(12)	Student Teaching
Education	550	(1)	Seminar in the Philosophy of Teaching

PLUS

Education	325	(1)	Social Studies Methods - Grade 5-9Learners
Education	335	(1)	Social Studies Methods - Grade 9-Adult Learners

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Special Education Endorsements to 5-Adult

Special Education

Mental Impairment 5-Adult Teaching Specialization:

Must be coupled with a Secondary Program specialization

Required Courses:

Education	304	(3)	Mathematics in the Elementary School
Mathematics	221	(3)	Mathematics for Teachers I
Reading	300	(3)	Reading in the Secondary School
Reading	330	(4)	Reading for the Secondary and K-Adult Special
Reading	450	(3)	Corrective Techniques in Reading Instruction
Special Education	300	(3)	Education of the Mentally Impaired
Special Education	310	(3)	Diagnosis, Prescription, and Assessment Techniques
Special Education	330	(3)	Behavior Management
Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Special Education	350	(3)	Instructional Strategies: Mild-Moderate Handicap Conditions
Special Education	400	(3)	Applied Practicum in Special Education

Special Education

Multicategorical 5-Adult Teaching Specialization:

Must be coupled with a Secondary Program specialization

Required Courses:

Mathematics	221	(3)	Mathematics for Teachers I
Mathematics	222	(3)	Mathematics for Teachers II
Reading	300	(3)	Reading in the Secondary School
Reading	330	(4)	Reading for the Secondary and K-Adult Special
Reading	450	(3)	Corrective Techniques in Reading Instruction
Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	290	(3)	Introduction to Specific Learning Disabilities
Special Education	300	(3)	Education of the Mentally Impaired
Special Education	310	(3)	Diagnosis, Prescription, and Assessment Techniques
Special Education	320	(3)	Introduction to Behavior Disorders
Special Education	330	(3)	Behavior Management

Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Special Education	350	(3)	Instructional Strategies: Mild-Moderate Handicap Conditions
Special Education	400	(3)	Applied Practicum in Special Education

Special Education

Specific Learning Disabilities, Grades 5-Adult Teaching Specialization:

Must be coupled with a Secondary Program specialization

Required Courses:

Mathematics	221	(3)	Mathematics for Teachers I
Mathematics	222	(3)	Mathematics for Teachers II
Reading	300	(3)	Reading in the Secondary School
Reading	330	(4)	Reading for the Secondary and K-Adult Special
Reading	450	(3)	Corrective Techniques in Reading Instruction
Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	290	(3)	Introduction to Specific Learning Disabilities
Special Education	310	(3)	Diagnosis, Prescription, and Assessment Techniques
Special Education	330	(3)	Behavior Management
Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Special Education	350	(3)	Instructional Strategies: Mild-Moderate Handicap Conditions
Special Education	400	(3)	Applied Practicum in Special Education

English

leading to a Bachelor of Arts Degree

Division of Humanities

Required Courses:

English	200	(3)	Advanced Composition
English	230	(3)	Creative Writing
English	240	(1)	Practicum in Publication of Creative Work
		(1)	(2 registrations required)
English	250	(3)	Advanced Grammar
English	281	(3)	Forms of Literature: Drama
English	283	(3)	Forms of Literature: Fiction
English	284	(3)	Forms of Literature: Poetry
English	290	(3)	Shakespeare
English	385	(3)	Studies of Myths and Fairy Tales
English	410	(3)	Development of the Language
Humanities	100	(2)	Introduction to the Humanities
Humanities	550	(3)	Seminar in the Humanities
Journalism	160	(1)	Journalism Practicum (2 registrations required)

Plus ONE of the following tracks:

TRACK ONE: CREATIVE WRITING

English	230	(3)	Creative Writing (2 registrations in addition to above)
English	240	(1)	Practicum in Pub. of Creative Work
			(4 reg. in addition to above)
English	450	(1)	Senior Portfolio Project
English	465	(3)	Senior Project in Literature
English	510	(3)	Internship in Publication of Creative Work
English	610	(3)	Independent Study in Creative Writing
			(2 registrations required)
Communication	360	(3)	Oral Interpretation

TRACK TWO: LITERATURE

English	220	(3)	Appalachian Literature
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English	225	(3)	Ethnic Literature of the United States
English	350	(3)	Early American Literature
English	355	(3)	Modern American Literature
English	360	(3)	World Literature
English	365	(3)	Nineteenth and Twentieth Century World Masterpieces
English	375	(3)	British Literature since 1785
English	465	(3)	Senior Project in Literature

TRACK THREE: PROFESSIONAL WRITING

Art	135	(3)	Photography I: Introduction to Digital Photography
English	260	(3)	Technical Writing
English	450	(1)	Senior Portfolio Project
English	500 or 520	(3)	Internship in Professional Writing or News Editing/Production
Journalism	160	(1)	Journalism Practicum (4 registrations in addition to above)
Journalism	200	(3)	Introduction to Journalism
Journalism	210	(3)	News Editing and Production
Communication	251	(3)	Advertising

ADMISSION REQUIREMENTS: Students must have a score of at least 20 on the ACT English test or 450 on the SAT Verbal test to be admitted as freshmen into the English major. To be admitted into the Creative Writing track, students must, by the beginning of their sophomore year, submit to the writing faculty a portfolio of their creative work for evaluation. Students will be either granted or denied admission to the track based on faculty evaluation of this portfolio. Students who are denied admission as sophomores may submit another portfolio for evaluation at the beginning of the junior year. If admission is again denied, the student may not apply again.

FOREIGN LANGUAGE: Four semesters of one modern foreign language are required.
(See policy on placement in courses.)

HUMANITIES CORE:

In addition to the requirements listed for each major and the requirements of the college liberal studies program, all students with a Humanities major are required to complete 12 credits in the Humanities Core: 6-8 credits from block I, 2-4 credits from block II, 2-4 credits from block III. Any course used to fulfill a requirement in the liberal studies program may NOT be used to fulfill a requirement in the Humanities core. Other than those courses used to fulfill a liberal studies program requirement, however, students may use courses required in their majors or minors to fulfill Humanities Core requirements as well.

I. CULTURAL HISTORY:

Art 190, 200, 210, 211, English 220, 225, 285, 290, 350, 355, 360, 365, 375, 410, French 100, German 100, History 220, 320, 340, History/Religion 330, 360, International Studies 300, 350, Philosophy/Religion 320, Religion 280, Sociology 230, Communication 190. Students may use six hours of a second foreign language (other than French 100 or German 100) - in addition to the 12 hours of a modern foreign language required in all Humanities majors - in this block. Foreign language courses taken in high school may NOT be used for this requirement (6-8 credits)

II. CRITICAL THINKING PROCESS:

Philosophy 290, Philosophy 310, Philosophy 340, Philosophy 391, Communication 170, Communication 320, Communication 355 (2-4 credits)

III. ARTISTIC EXPRESSION:

Art 100, 115, 118, 120, 125, 135, 140, 150, 215, 220, 225, 235, 250; English 230; MUAP 130, 151, 181, 182, 183, 184, 185, 186, 187, 188, 221, 222, 223, 230, 240, 250, 251, 270; Speech 180, 360 (2-4 credits)

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Environmental Science

leading to a Bachelor of Science Degree
Division of Natural Science

Required Courses:

Biology	211	(4)	General Biology II
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Biology	212	(4)	Botany
Biology	360	(4)	Ecology
Chemistry	200	(4)	General Chemistry I
Chemistry	210	(4)	General Chemistry II
Chemistry*	300	(4)	Principles of Organic Chemistry
Chemistry	303	(3)	Environmental and Toxicological Chemistry
English	260	(3)	Technical Writing
Environmental Science	210	(4)	Environmental Science I
Environmental Science	211	(4)	Environmental Science II
Environmental Science	375	(3)	Conservation Biology
Environmental Science	550	(1)	Seminar
Geology	190	(4)	Introduction to Geology
Geology	350	(4)	Hydrogeology
Mathematics	141	(3)	Trigonometry
Mathematics	251	(3)	Statistics
Natural Science	100	(3)	Success in the Sciences
Natural Science	182	(1)	Meteorology
Natural Science	395	(2)	Issues in the Natural Sciences
Natural Science	361	(2)	Research Methods I
Natural Science	362	(1)	Research Methods II
Natural Science	461	(1)	Senior Research Project
Physics	211	(4)	Introduction to Physics
Economics	211	(3)	Micro-Economics
OR			
Political Science	200	(3)	American National Government

*Not required if Chemistry 310 is taken.

PLUS, a minimum of 15 HOURS of appropriate upper level Environmental Science, Biology, Chemistry and/or Geology as listed below.

An internship with an approved business, agency or other organization involved in environmental work is strongly recommended.

GGY 200 Principles of Physical and Human Geography is also recommended.

The following classes may be taken to satisfy the degree requirements of the Bachelor of Science Degree in Environmental Science.

Biology	210	(4)	General Biology I
Biology	240	(4)	Microbiology
Biology/Environ Science	354	(4)	West Virginia Flora
Biology/Environ Science	355	(4)	Mammalogy
Biology/Environ Science	380	(4)	Aquatic Entomology
Biology/ Environ Science	382	(4)	Entomology
Biology	390	(3)	Special Topics in Biology
Biology/ Environ Science	410	(4)	Limnology
Biology/ Environ Science	455	(4)	Ornithology
Biology/ Environ Science	482	(4)	Herpetology
Chemistry	250	(4)	Analytical and Instrumental Methods
Chemistry	310	(4)	Organic Chemistry I
Chemistry	311	(4)	Organic Chemistry II
Chemistry	350	(4)	Instrumental Analysis
Computer Science	390	(3)	ST: Geographic Information Systems
Environmental Science	390	(3)	ST: Environmental Science
Environmental Science	475	(4)	Wildlife Management
Environmental Science	500	(3)	Internship
Environmental Science	560	(2-4)	Guided Study
Environmental Science	600	(2-4)	Independent Study
Environmental Science	650	(6)	Independent Study
Geology	390	(3)	Special Topics in Geology

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Family Studies

leading to a Bachelor of Arts Degree

Division of Social Sciences

Required Courses:

Business	160	(3)	Introduction to Management
Business	235	(3)	Human Resource Management
Family Studies	200	(3)	The Helping Relationship
Family Studies	300	(3)	Introduction to Play Therapy
Family Studies	500	(6)	Field Placement - two semesters
Family Studies	550	(3)	Seminar in Family Studies
Psychology	220	(3)	Human Development
Psychology	260	(3)	Statistics and Data Analysis
Psychology	301	(3)	Principles of Learning
Psychology	360	(3)	Research Methods
Psychology	420	(3)	Abnormal Psychology
Psychology	430	(3)	Counseling Theories, Issues, and Skills
Sociology	190	(3)	Introduction to Sociology
Sociology	210	(3)	The Family
Sociology	240	(3)	Social Problems

Allied Fields: Four courses in TWO allied fields (two courses in each field) to be chosen from among offerings in: Economics, Geography, History, Political Science, and Business

Foreign Language: Four semesters of one modern foreign language are required (see policy on placement in courses.)

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

History

leading to a Bachelor of Arts Degree

Division of Social Sciences

Required Courses:

History	150	(3)	Civilization I
History	160	(3)	Civilization II
History	200	(3)	History of the United States to 1865
History	210	(3)	History of the United States Since 1865
History	220	(3)	The Western Tradition
History	550	(3)	Seminar in History

PLUS any six of the following courses:

History	320	(3)	Europe in the Middle Ages
History	330	(3)	Renaissance and Reformation
History	340	(3)	Europe in the 17th and 18th Centuries
History	360	(3)	The Christian Church Through the Ages
History	370	(3)	American Legal History
History	390	(2-3)	Special Topics in History
History	400	(3)	The United States in the 20th Century
History	410	(3)	United States Diplomatic History
History	420	(3)	Europe in the 19th and 20th Centuries
History	600	(2-4)	Independent Study in History

Allied Fields: Four courses in TWO allied fields (two courses in each field) to be chosen from among offerings in: Economics, Geography, Political Science, Psychology*, Sociology*

*At least ONE of the following three courses must be included:

Psychology 190, Psychology 220, or Sociology 190

Foreign Language: Four semesters of one modern foreign language are required (see policy on placement in courses.)

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Human Resource Management

leading to a Bachelor of Science Degree

Division of Social Sciences

Department of Business

Required Courses:

Business	120	(3)	Introduction to Marketing
Business	140	(3)	Introduction to Accounting I
Business	150	(3)	Introduction to Accounting II
Business	160	(3)	Introduction to Management
Business	184	(3)	Computers in Business
Business	250	(3)	Business Ethics
Business	251	(3)	Business Statistics
Business	281	(3)	Business Law I
Business	285	(3)	Business Law II
Business	290	(3)	International Business
Business	320	(3)	Business Finance
Business	355	(3)	Management Science
Business	550	(3)	Strategic Management/Business Policy
Communication	130	(3)	Speaking Effectively
Economics	201	(3)	Macro-Economics
Economics	211	(3)	Micro-Economics
English	260	(3)	Technical Writing

PLUS THE FOLLOWING COURSES:

Business	175	(3)	Risk Management and Insurance
Business	235	(3)	Human Resource Management
Business	250	(3)	Business Ethics
Business	305	(3)	Training and Development
Business	325	(3)	Employment Law and Labor Relations
Business	335	(3)	Recruitment, Selection and Evaluation
Psychology	400	(3)	Social Psychology
Humanities	280	(3)	Principles of Human Communication
Communication	150	(3)	Interpersonal Communication

PLUS FOUR courses in the Social Sciences to be chosen from offerings in:

Geography, History, Political Science, Psychology, Sociology

FOREIGN LANGUAGE/FOREIGN STUDIES: It is recommended that students take one semester of International Studies to fulfill this requirement. Otherwise two semesters of a foreign language (refer to foreign language placement requirements) or an independent foreign studies project is required.

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Interdisciplinary Studies

leading to a Bachelor of Science OR a Bachelor of Arts Degree

A major in Interdisciplinary Studies offers students whose academic interests do not match existing majors an opportunity to create a program to meet their academic goals. Flexibility and choice are its distinctions,

together with structure sufficient to permit its use as a basis for graduate education. This is not a program for students registered as “undecided”. This major may be used by a student who prefers a broad Liberal Arts background, or who wants to examine a set of intellectual issues bridging courses in multiple disciplines, or who wants to pursue a special area of study that cannot be satisfied in a regular major, double major, or combined major and minor. The Interdisciplinary Studies program will be supervised by an interdisciplinary Studies advisor, a faculty member who undertakes the role as part of his or her regular advising duties, coordinating the program as a whole (with program review responsibilities) and monitoring the individual study plans of students in the program. This program advisor will not ordinarily be a student’s primary Academic Advisor. The primary advisor will be selected from a field appropriate to the plan of study selected by the student. Before being admitted to the program, the student will work with the Interdisciplinary Studies advisor and one or more other faculty members to design an interdisciplinary course of study and will then submit a detailed written proposal. The proposal must include a coherent body of study and a rationale for course selection. It must be designed using one of the following options:

Option A: At least forty (40) semester hours of work in any one of the five Academic Divisions, with a listing of specific classes to be taken, and at least twenty (20) semester hours in a second Division, with a listing of specific classes to be taken.

Option B: At least twenty-seven (27) semester hours of work in any one of the five Academic Divisions, with a listing of specific classes to be taken; at least eighteen (18) semester hours in a second Academic Division, with a listing of specific courses to be taken; and at least fifteen (15) semester hours in a third Academic Division, with a listing of specific courses to be taken. For both Option A and Option B, the proposed course work must include at least forty (40) semester hours of upper-level work (courses numbered 300 or above).

THE COURSES LISTED AS FULFILLING PROGRAM REQUIREMENTS MAY NOT BE USED TO FULFILL LIBERAL STUDIES REQUIREMENTS.

The proposed course of study must also include the following:

1. At least four (4) semesters of a modern foreign language
2. The capstone course required in the student’s primary field of concentration

This proposal must be approved by the Academic Advisor, the Interdisciplinary Studies Advisor, and the Provost/Vice President for Academic Affairs. It must then be filed with the Registrar. In order to be certified for graduation, a student must have successfully completed all of the course work outlined in this approved plan. Any modification to the program after it is filed must be approved by the Academic Advisor, the Interdisciplinary Studies Advisor, and the Provost/Vice President for Academic Affairs.

Senior Thesis.

In addition to the required course work, a student must complete a senior thesis. The student may register for up to three (3) semester hours of credit in individual studies if he or she wishes to receive academic credit for the thesis. However, these semester hours may not be counted toward fulfillment of the semester-hour requirements of the study plan itself, and the student is not required to register for academic credit for the thesis. The thesis project must represent a culmination of the student’s program and must be planned in consultation with a committee consisting of the Interdisciplinary Studies advisor, the Academic Advisor, and one additional faculty member in a field related to the student’s program. This committee must review and approve the student’s thesis proposal before the student proceeds with the project. The committee will also review the final thesis, with the options of approving the thesis without revision, requiring revisions before reconsidering for approval, or rejecting the thesis outright. After the thesis is approved, the student will meet with the committee to provide an oral defense of the project. In addition to these major requirements, the student must complete all requirements for the Liberal Studies Program. Each student must, to meet the standard graduation requirement, earn at least a 2.00 cumulative average in the courses defined in writing as the major program.

A SENIOR THESIS is required.

FOREIGN LANGUAGE: Four semesters of a modern foreign language are required.

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Marketing

leading to a Bachelor of Science Degree

Division of Social Sciences
Department of Business

Required Courses:

Business	120	(3)	Introduction to Marketing
Business	140	(3)	Introduction to Accounting I
Business	150	(3)	Introduction to Accounting II
Business	160	(3)	Introduction to Management
Business	184	(3)	Computers in Business
Business	250	(3)	Business Ethics
Business	251	(3)	Business Statistics
Business	281	(3)	Business Law I
Business	285	(3)	Business Law II
Business	290	(3)	International Business
Business	320	(3)	Business Finance
Business	355	(3)	Management Science
Business	550	(3)	Strategic Management/Business Policy
Communication	130	(3)	Speaking Effectively
Economics	201	(3)	Macro-Economics
Economics	211	(3)	Micro-Economics
English	260	(3)	Technical Writing

PLUS THE FOLLOWING COURSES:

Business	343	(3)	Database Management
Business	345	(3)	Marketing Research
Business	350	(3)	Consumer Behavior
Business	435	(3)	Marketing Management
Psychology	400	(3)	Social Psychology
Communication	251	(3)	Advertising

PLUS FOUR courses in the Social Sciences to be chosen from offerings in:

Geography, History, Political Science, Psychology, Sociology

FOREIGN LANGUAGE/FOREIGN STUDIES: It is recommended that students take one semester of International Studies to fulfill this requirement. Otherwise two semesters of a foreign language (refer to foreign language placement requirements) or an independent foreign studies project is required.

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Mathematics

leading to a Bachelor of Science Degree
Division of Natural Science

Required Courses:

Computer Science	261	(3)	Programming Techniques I
Computer Science	262	(3)	Programming Techniques II
Mathematics	166	(3)	Discrete Math I
Mathematics	167	(3)	Discrete Math II
Mathematics	231	(4)	Calculus I
Mathematics	232	(4)	Calculus II
Mathematics	251	(3)	Statistics
Mathematics	312	(3)	Algebraic Structures I
Mathematics	313	(3)	Algebraic Structures II
Mathematics	315	(3)	Linear Algebra
Mathematics	333	(4)	Advanced Calculus
Physics	221	(4)	General Physics I
Physics	222	(4)	General Physics II
Natural Science	100	(3)	Success in the Sciences
Natural Science	395	(2)	Issues in the Natural Sciences
Natural Science	361	(2)	Research Methods I
Natural Science	362	(1)	Research Methods II

Natural Science	461	(1)	Senior Research Project
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PLUS 6 SEMESTER HOURS SELECTED FROM:

Computer Science	271	(3)	Computer Language
Computer Science	311	(3)	Computer Theory
Computer Science	312	(3)	Computer Animation
Computer Science	380	(3)	Computer Graphics I
Mathematics	371	(3)	Principles of Geometry
Mathematics	441	(3)	Differential Equations
Mathematics	600	(2-4)	Undergraduate Research

FOREIGN LANGUAGE: Not required

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Among REQUIREMENTS FOR GRADUATION, the student must have a 2.00 average in the major and must successfully complete a research project.

Music Department

Music Education, Applied Music, and Musical Arts

leading to a Bachelor of Arts Degree

Division of Education and Special Programs

Department of Music

Music Department Policies

Entrance Requirements

All students seeking acceptance into Alderson-Broaddus College as music education, applied music, or musical arts majors are required to pass an entrance audition on their primary instrument(s). Auditions are normally held in early spring for students entering the following fall. The music faculty will at that time 1) *grant full admission* to the program; or 2) *grant probationary admission* to the music program (see "Probationary Admission" below); or 3) deny the student admission to the music program, thus not allowing the student to register as a music major. (NOTE: Being denied admission to the music department as a music major does NOT affect the student's prior or subsequent academic admission to the College.) Since the music faculty determines music scholarship awards at the time of entrance auditions, students are advised to apply for admission and present their auditions in a timely fashion (that is, before all available scholarship funds are allocated to others - see "Music Scholarships" below.)

NOTES:

- If a student is unable to schedule an audition for any reason prior to the beginning of the semester, he/she may be admitted provisionally to the music program provided that the student passes an entrance audition no later than the end of the registration period of the student's first semester. At that time the music faculty will decide the student's admission status as described above.
- At the discretion of the music faculty, a student initially admitted as a major in applied music may be required to switch to a major in music education or musical arts in order to continue in the program. This happens after he/she has had a least one semester's instruction on his/her voice/instrument and the music faculty then determines that the student is highly unlikely to be able to achieve the requisite level of performance accomplishment (see the discussion about applied levels and juries below).

Probationary Admission

Students granted probationary admission to the music program are allowed to register as music majors and for the courses appropriate to the first semester of study. At the end of the first semester, the music faculty evaluates each probationary student's progress and either 1) grants *full admission*; or 2) continues *probationary status* (under rare circumstances); or 3) denies the student admission into the music program. Students denied admission on the basis of this evaluation may no longer register as music majors, but may continue as students enrolled at the College. Students on probationary admission are not eligible for music scholarships. The music faculty may choose to award a music scholarship award to a student granted full admission after a period of probationary admission.

Music Scholarships

The music faculty uses the entrance audition to determine the awards of music scholarships to qualified recipients. Criteria for awarding music scholarships include: performance ability on major and secondary

instruments or voice, academic record and ACT/SAT scores, potential for contribution to the Music Department and its performing ensembles, musical aptitude, and probability of success in one of the offered degree programs. Information describing appropriate audition repertoire for each instrument is available from the Music Department upon request and can be found on the Music Department Web page. The Music Department encourages applicants to audition for entrance/music scholarships on one of the designated audition dates. Students who cannot audition on one of these dates may do so at another time by appointment. All inquiries about scheduling auditions should be directed to the College's Admissions Office, which negotiates audition appointments in consultation with the music faculty.

Policies Pertaining To Private Lessons (Music and Non-Music Majors)

1. Instruction
 - a. Students register for 1, 2 or 3 semester hours of private lessons. (No students, including music majors, should register for 3- semester hour lessons without prior consultation and permission from the instructor and the Department Chair.) All non-music majors should expect to register for 1-semester hour lessons, although permission to register for 2- or (very rarely) 3-semester hour lessons will be granted in special circumstances. Most music majors should expect to register for 2-semester hour lessons. PRIVATE LESSONS ARE NOT AVAILABLE BY AUDIT.
 - b. Students receive 25 minutes of instruction time per week for every hour of credit in Applied Music (MUAP) 181-188 for which they are registered. There are a total of 14 lessons per semester. (At the option of the instructor, equivalent amounts of time and personal attention may be given through studio class or similar instruction.) There is an additional LAB FEE for private lessons (check with Business Office for current lab fee for music lessons.)
 - c. Each student must meet the attendance requirements for lessons as determined by the individual instructor. No make-up lessons will be given to any student not fully complying with the instructor's requirements, particularly failure to give prior notification of absence. Furthermore, while encouraged to do so if practical, the instructor is under no obligation to make up lessons missed within the one month before Reading Day even if the student's absence is excused. The student bears the responsibility of negotiating the taking of make-up lessons with the instructor.
 - d. The Music Department is pleased to offer private lessons to interested students in all majors. However, the prerequisite for all private lessons is WPI (with permission of the instructor). The Music Department thus reserves the right to 1) limit students to 1- semester hour lessons; or 2) refuse private lesson instruction to those individuals not required to take lessons when faculty teaching assignments are full. When necessary, the Department will determine at its sole discretion which students have priority access to private lessons.
2. Total Credits
Not more than 24 semester hours of credit in lessons may be counted in the total credits offered for graduation.
3. Public Solo Performance
The Music Department sponsors a number of public recitals every semester, which feature student soloists and small ensembles. Students majoring in music should expect to perform publicly at least once per year. All students registered for private lessons, including non-music majors, may be asked by their instructors to perform publicly. Such performance requirements are determined by the instructor.

Lessons on Primary Instrument/Voice (Music Majors)

<u>Course (Lessons)</u>		<u>Credits</u>	<u>Instrument</u>
Applied Music	181	(1,2 or 3)	Brass
Applied Music	182	(1,2 or 3)	Organ
Applied Music	183	(1,2 or 3)	Percussion
Applied Music	184	(1,2 or 3)	Piano
Applied Music	185	(1,2 or 3)	Voice
Applied Music	186	(1,2 or 3)	Woodwinds
Applied Music	187	(1,2 or 3)	Guitar
Applied Music	188	(1,2 or 3)	Strings

Each music major specializes in a performance area (piano, organ, voice, guitar, percussion, brass or woodwind instrument). The music major must register for lessons on his/her instrument or voice until he/she has accumulated a minimum of 11 semester hours in Applied Music (MUAP 181-187). Each music major works towards a performance level on his/her primary instrument/voice. All levels in applied music are determined by the student's performance at a jury presented before the music faculty at the end of each semester or at other arranged times. The jury provides a means by which the music faculty may monitor

each student's achievement and progress toward applied music level requirements. All music majors working toward a level requirement in a primary performance area must present a jury at the end of every semester of required study until he/she earns the exit level for his/her program. Students who have reached their exit levels are still required to present one jury per year. Note: A music major seeking a level in a secondary performance area does NOT need to present a jury each semester in that secondary area unless required to do so by the instructor, but must present a jury at some time to determine if the required level has been reached. Music majors must present either a senior recital or a senior project at the end of their study in their performance area. In order to present a Senior Recital, music education and musical arts majors must earn an Applied Level 7 and pass a recital hearing presented for the music faculty; applied music majors must reach an Applied Level 10 and pass a recital hearing presented for the music faculty. Senior music education or musical arts majors who have reached Level 5 in their performance area MAY elect (with approval of the music faculty) to present a senior project (for example, a lecture recital). Note: Applied music majors MUST present the Senior Recital option. Students must register for lessons during the semester in which the required senior solo recital or project is presented. Neither the required senior recital/senior project hearing nor the presentation of the senior recital/senior project can take place during the time of the student teaching placement. Specific requirements for the senior recital and project are available from the Music Department.

Ensemble Program Requirements (Music Majors)

<u>Course</u>		<u>Credits</u>	<u>Ensemble</u>
Applied Music	221	(1)	Brass Choir
Applied Music	222	(1)	Jazz Ensemble
Applied Music	223	(1)	Woodwind Chamber Ensemble
Applied Music	230	(1)	Concert Band
Applied Music	240	(1)	Concert Choir
Applied Music	250	(1)	"The West Virginians"
Applied Music	251	(1)	Opera Workshop
Applied Music	260	(1)	Chapel Choir

Each music major is required during each semester on campus to participate fully in and meet all requirements of at least one musical ensemble sponsored or directed by the Department. Furthermore, proper preparation for school music teaching requires that music education majors have choral and instrumental ensemble experience. Specific requirements, which depend on the applied area of the student, are as follows: Brass, woodwind or percussion majors must ALWAYS participate in Concert Band, except that the music faculty may, at its discretion and for the sake of optimizing the operation of Department-sponsored ensembles, substitute another approved instrumental ensemble (e.g., Brass Choir, Jazz Ensemble) in place of the Concert Band. Furthermore, percussion and wind instrument majors in music education must participate for at least two semesters in Concert Choir or an approved substitute choral ensemble (n.b., however, that no substitute choral ensemble is currently offered) while concurrently participating in Concert Band (or approved instrumental substitute).

Note: Ordinarily, participation in the secondary ensemble required for music education majors should occur during the fall and spring semesters of one academic year; students (in consultation with their academic advisors) are expected to plan their academic schedules with this in mind. With permission granted by majority vote of the music faculty, however, students whose academic schedules present unusual circumstances may be allowed to participate in their secondary ensemble for two semesters which occur in different academic years OR (more rarely) in two different secondary ensembles in the same semester.

Voice majors must ALWAYS participate in Concert Choir, except that the music faculty may, at its discretion and for the sake of optimizing the operation of Department-sponsored ensembles, substitute another approved choral ensemble (n.b., however, that no substitute ensemble is currently offered). Furthermore, voice majors in music education must participate for at least two semesters in Concert Band or an approved substitute instrumental ensemble (Brass Choir, Jazz Ensemble) while concurrently participating in Concert Choir. Students participating in Concert Band (or approved instrumental substitute) are expected to do so for an entire academic year under ordinary circumstances (see Note above).

Keyboard (organ or piano) or guitar majors must ALWAYS participate in Concert Band or Concert Choir, except that the music faculty may (as described above) substitute other approved ensembles. Furthermore, for at least two semesters, students in music education must participate concurrently in both Concert Band and Concert Choir (or approved substitutes). Students participating in Concert Choir or Concert Band are expected to do so for an entire academic year under ordinary circumstances (see Note above). The music faculty may, at its sole discretion, require that a piano major continue ensemble participation until he/she is ready to assume an equivalent amount of responsibility as an accompanist. Ordinarily,

accompaniment assignments require approximately three hours per week for music education and musical arts majors, five hours per week for applied music majors. These assignments are established, monitored and adjusted by the music faculty on a continual basis. Accompaniment responsibilities continue throughout every semester the student is on-campus until graduation. These participation requirements are program minimums. Note that students receiving music scholarships may have additional participation requirements as specified on their scholarship contracts.

The Music Department offers other performance opportunities **not available as courses for credit**. Currently-offered examples of these include the Handbell Choir, and Barbershop and Beautysop Quartets. Information about these and other music participation activities is available from the Department.

Professional Status

The Department of Music has established the following *Criteria for Professional Status*. Students must meet these criteria by the completion of four semesters (six semesters in some cases, details below) in order to continue as music majors.

Applied Music Lesson Enrollments: At the end of four semesters of study, students must have completed four enrollments and completed a minimum of 6 credit hours of private study on their major instrument or voice and earned a GPA of 2.5 or greater in those enrollments.

Ensemble Performance: At the end of four semesters of study, the student must have completed four enrollments in the ensemble designated as the program requirement for that student's major performance emphasis, and must have earned a minimum GPA in those enrollments of 2.5.

MUSC 113 Music Theory Rudiments: At the end of three semesters of study at A-B the student must have completed MUSC 113 and earned a minimum grade of C to continue enrollment as a music major at Alderson-Broadbudd College.

REMEDICATION: The student who withdraws failing or with a D from his/her first attempt or earns a grade of D or F will be required to take the remedial individual course MUSC 013 the next semester and earn a grade of Satisfactory. The student then may attempt MUSC 113 again to achieve the required grade of C.

MUSC 111 Musicianship I: At the end of three semesters of study at A-B the student must have completed MUSIC 111 and earned a minimum grade of C to continue enrollment as a music major at Alderson-Broadbudd College.

REMEDICATION: Same as above with MUSC 011 as the required remedial course. The student then may attempt MUSC 111 again to achieve the required grade of C.

Additional Requirements: At the end of four semesters of study at A-B the student must have passed the following courses to continue enrollment as a music major at Alderson-Broadbudd College:

MUSC-115, Foundations for the Study of Music: Introduction to the Music Profession

MUSC-150, Music Theory I

MUSC-151, Musicianship II

At the end of six semesters of study at A-B the student must have passed the following courses to continue enrollment as a music major at Alderson-Broadbudd College. No student will be allowed more than two enrollments of these courses and they must be consecutive:

MUSC-205, Music Theory II

MUSC-201, Musicianship III

Rhythmic and Melodic Proficiency Exam: The Rhythmic and Melodic Proficiency Exam is to be a pass/fail test which must be passed by the conclusion of the fourth semester of study to continue enrollment as a music major at Alderson-Broadbudd College.

Piano Class Remediation: Any student earning a grade of F in MUAP 151 (Piano Class I) must enroll in the remedial individual course MUAP 184 (Applied Piano Lesson) the next semester and earn a grade of C to continue enrollment as a music major at Alderson-Broadbudd College. The student must then enroll in MUAP 151 at its next offering and earn a grade of C to continue enrollment as a music major at Alderson-Broadbudd College.

Music Education Teaching Specialization: Pre K-Adult

leading to a Bachelor of Arts Degree

Division of Education and Special Programs

Department of Music

REQUIRED:

Applied Music	050	(0)	Music Convocation
Seven successful registrations (grade of "Satisfactory" earned) required.			
Applied Music	151	(1)	Class Piano I

Applied Music	152	(1)	Class Piano II
Applied Music	153	(1)	Class Piano III
Some students may be allowed to bypass some piano classes but still must reach required proficiency			
Music	111	(2)	Musicianship I
Music	113	(1)	Theory Rudiments
Music	115	(2)	Foundations of Music: Intro to the Music Profession
Music	121	(1)	Foundations of American Jazz and World Music
Music	150	(3)	Theory I
Music	151	(2)	Musicianship II
Music	201	(2)	Musicianship III
Music	205	(2)	Theory II
Music	251	(2)	Musicianship IV
Music	255	(2)	Theory III
Music	330	(2)	Arranging and Scoring
Music	340	(3)	Form and Analysis
Music	355	(2)	Conducting I
Music	365	(2)	Conducting II
Music	400	(2)	History and Literature of Music I
Music	410	(2)	History and Literature of Music II
Music	425	(2)	Modern Music Styles

Music Education 130 (1) Class Voice

OR

Music Education 131 (1) Diction for Singers

Music Education 154 (1) Piano Class IV/Pedagogy

Under certain circumstances, students may take a Piano Proficiency Examination in lieu of registering for Applied Music 151-153 and MUED 154.

Music Education	240	(1)	Vocal Techniques
Music Education	250	(1)	Strings Pedagogy
Music Education	270	(1)	Percussion Pedagogy
Music Education	271	(1)	Brass Techniques/Pedagogy
Music Education	272	(1)	Woodwind Techniques/Pedagogy
Physical Education	281	(1)	Folk and Square Dancing

Plus 11 Hours of applied music in area of concentration (Applied Music 181-187; see "Lessons on Primary Instrument")

Plus ensemble(s) required by specific program (see "Ensemble Program Requirements")

Plus Professional Education Courses:

Computer Science	171	(1)	Computer Skills for the Music Classroom
Computer Science	172	(1)	Music Software for the Teacher-Musician
Computer Science	173	(1)	Music Hardware for the Teacher-Musician
Education	200	(2)	Foundations of American Education
Education	270	(3)	Development in Early Childhood through Adolescence
Education	290	(3)	Psych Foundations in Early Childhood through Adolescence
Education	360	(2)	Educational Issues in a Multicultural and Global Society
Education	480	(1)	Professional Communication Using Technology
Education	500	(12)	Student Teaching***
Education	550	(1)	Seminar in the Philosophy of Teaching***

*** *Special sections of Education 500 and 550 are offered for Music Education majors only.*

Reading	301	(3)	Teaching Reading Through General Music Methods
Music Education	311	(1)	Laboratory for General Music Methods
Music Education	320	(2)	Choral Music Methods
Music Education	321	(1)	Laboratory for Choral Music Methods
Music Education	330	(2)	Instrumental Music Methods
Music Education	331	(1)	Laboratory for Instrumental Music Methods
Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	341	(1)	Special Learners in the General Music Classroom
Special Education	342	(1)	Special Learners in the Choral Music Classroom
Special Education	343	(1)	Special Learners in the Instrumental Music Classroom

IMPORTANT NOTE: In addition to the above requirements, students must take the Music Education Content Specialization Test and the Principles of Learning and Teaching test in order to graduate.

Applied Music

leading to a Bachelor of Arts Degree

Division of Education and Special Programs

Department of Music

REQUIRED:

Applied Music 050 (0) Music Convocation
Eight successful registrations (grade of "Satisfactory" earned) required.

Applied Music 130 (1) Class Voice (non-voice majors)

OR

Applied Music 131 (1) Diction for Singers (voice majors only)

Applied Music 151 (1) Class Piano I

Applied Music 152 (1) Class Piano II

Applied Music 153 (1) Class Piano III

Applied Music 154 (1) Class Piano IV

Under certain circumstances, students may take a Piano Proficiency Examination in lieu of registering for Applied Music 151-154

Music	111	(2)	Musicianship I
Music	113	(1)	Theory Rudiments
Music	115	(2)	Foundations of Music: Intro to the Music Profession
Music	121	(1)	Foundations of American Jazz and World Music
Music	150	(3)	Theory I
Music	151	(2)	Musicianship II
Music	201	(2)	Musicianship III
Music	205	(2)	Theory II
Music	251	(2)	Musicianship IV
Music	255	(2)	Theory III
Music	330	(2)	Arranging and Scoring
Music	340	(3)	Form and Analysis
Music	355	(2)	Conducting I
Music	365	(2)	Conducting II
Music	400	(2)	History and Literature of Music I
Music	410	(2)	History and Literature of Music II
Music	425	(2)	Modern Music Styles
Music	395	(2)	Issues in the Study/Performance of Music

Plus 11 hours of applied music in area of concentration (Applied Music 181-187; see "Lessons on Primary Instrument", page 97)

Plus ensemble(s) required by specific program (see "Ensemble Program Requirements", page 98)

Plus foreign language (see "Foreign Language Requirement" below.)

Plus oral comprehensive examination administered by the music faculty.

Foreign Language Requirement (Applied Music Majors)

Applied music majors must take three semesters in one or two of the following modern foreign languages: French, Spanish, Italian and/or German (note that even though some of these languages are not presently taught at Alderson-Broadus College, they can be taken elsewhere.) The requirement may be configured with all three semesters in the same language or with two semesters in one language and a third semester in another. Languages successfully completed in high school may substitute for this requirement as follows: two years (or equivalency) of high school language equals two semesters of college language; one year (or equivalency) of high school language equals one semester of college language. (Note: The college language requirement is fulfilled by taking three years - or equivalency - of high school language.)

Musical Arts

leading to a Bachelor of Arts Degree

Division of Education and Special Programs

Department of Music

REQUIRED:

Applied Music 050 (0) Music Convocation
Eight successful registrations (grade of "Satisfactory" earned) required.

Applied Music 130 (1) Class Voice (non-voice majors)
OR

Applied Music 131 (1) Diction for Singers (voice majors only)

Applied Music 151 (1) Class Piano I

Applied Music 152 (1) Class Piano II

Applied Music 153 (1) Class Piano III

Applied Music 154 (1) Class Piano IV

Under certain circumstances, students may take a Piano Proficiency Examination in lieu of registering for Applied Music 151-154

Music 111 (2) Musicianship I

Music 113 (1) Theory Rudiments

Music 115 (2) Foundations of Music: Intro to the Music Profession

Music 121 (1) Foundations of American Jazz and World Music

Music 150 (3) Theory I

Music 151 (2) Musicianship II

Music 201 (2) Musicianship III

Music 205 (2) Theory II

Music 251 (2) Musicianship IV

Music 255 (2) Theory III

Music 330 (2) Arranging and Scoring

Music 340 (3) Form and Analysis

Music 355 (2) Conducting I

Music 365 (2) Conducting II

Music 400 (2) History and Literature of Music I

Music 410 (2) History and Literature of Music II

Music 425 (2) Modern Music Styles

Music 395 (2) Issues in the Study/Performance of Music

Plus 11 hours of applied music in area of concentration (Applied Music 181-187; see "Lessons on Primary Instrument".

Plus ensemble(s) required by specific program (see "Ensemble Program Requirements".

Plus the requirements of:

- another major not offered by the Music Department
OR
- any elective minor not offered by the Music Department
OR
- the Audio Engineering Minor
- **OR**
- one of the following **Tracks**:

Business Track

Business	120	(3)	Introduction to Marketing
Business	140	(3)	Introduction to Accounting I
Business	160	(3)	Introduction to Management
Business	235	(3)	Human Resource Management
Business	281	(3)	Business Law I
Business	325	(3)	Employment Law
Business	435	(3)	Marketing Management

Recreational Leadership Track

Recreation	200	(3)	Philosophy and Orientation in Physical Educ and Recreation
Recreation	210	(3)	Theory and Practice of Recreational Leadership
Recreation	230	(3)	Dynamics of Recreational Groups

Recreation	310	(3)	Administration of Leisure Programs
Recreation	325	(3)	Adaptive Physical Education/Recreation
Recreation	330	(3)	Rehabilitation of the Aging
Recreation	400	(3)	Recreation Program Organization and Planning
Physical Education	281	(1)	Square and Folk Dancing

Plus oral comprehensive examination administered by the music faculty.

Plus one pedagogy class (see "Pedagogy Program Requirements" below.)

Pedagogy Program Requirements (Musical Arts Majors)

A one-credit pedagogical techniques class pertaining to the principal instrument is required for the musical arts major. This requirement is satisfied by the following courses:

- a. for voice: Music Education 240, Vocal Techniques
- b. for woodwind, brass or percussion: ONE appropriate course chosen from Music Education 270-272 (the specific course is chosen to correspond with the student's principal instrument)
- c. for piano, organ or guitar majors: Music 570 (a one-credit Graded guided study) in pedagogy for that instrument

NATURAL SCIENCE

leading to a Bachelor of Arts degree
Division of Natural Sciences

This major requires the completion of 21 courses within the natural science distributed as follows:

- 6 courses in the major concentration field*
- 3 courses in the first allied field**
- 3 courses in a second allied field**
- 2 courses in a third allied field**
- 2 courses in a fourth allied field**

PLUS:

Natural Science	395	(2)	Issues in the Natural Sciences
Natural Science	361	(2)	Research Methods I
Natural Science	362	(1)	Research Methods II
Natural Science	461	(1)	Senior Research Project

*Possible Major concentration fields – biology, computer science, environmental science, chemistry and mathematics.

**Possible Allied fields – biology, chemistry, computer science, mathematics and physics (including geology and astronomy), environmental science, nursing, Physician Assistant.

Note:

1. No 1 credit hour courses, with the exception of laboratory courses, and no more than one 2 – credit hour course may be counted in the 16 courses.
2. The following courses are excluded: Mathematic 110 and 111.
3. A student who elects the Bachelor of Arts option will not be allowed to obtain a second major unless the second area is outside the natural sciences.
4. The six courses in the computer science major field must be selected from the required computer science courses from the Bachelor of Science in computer science.

FOREIGN LANGUAGE: Not required.

Among REQUIREMENTS FOR GRADUATION, the student must have a 2.50 average in the major and must pass a comprehensive examination, planned and administered by the department or division, or successfully complete a research or writing project.

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Nursing

leading to a Bachelor of Science Degree
Division of Health Sciences
Department of Nursing

Upon graduation from the program, the graduate has completed the educational requirements to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). The program offered by the Department of Nursing is accredited by the National League for Nursing Accrediting Commission and by the West Virginia Board of Examiners for Registered Professional Nurses. The Department of Nursing is an agency member of the National League for Nursing.

Accrediting Agencies:

National League for Nursing Accrediting Commission
(NLNAC)
3343 Peachtree Rd NE, Suite 500
Atlanta, GA 30326
404-975-5000
www.nlnac.org

State Of West Virginia Board of Examiners for
Registered Professional Nurses
(WVBOERN)
101 Dee Drive
Charleston, WV 25311
304-558-3596
www.wvrbboard.com

Degree completion tracks are offered for Licensed Practical Nurses (LPN-BSN) and Registered Nurses (RN-BSN) who qualify.

Admission to the Nursing Major

In order to be admitted to the Department of Nursing, a student must first qualify for admission to the college. Following receipt of the application to the college, the student's records may be reviewed at the departmental level by one or more of the following: Admission and Progression Committee; chair of the Department; director of the RN-BSN Degree Completion Program; director of the LPN-BSN track. Admission to the Nursing Department is based on established criteria for the various categories within the traditional and nontraditional curriculum, and is either as a direct or provisional admission.

TRADITIONAL TRACK ADMISSIONS

1. Direct Admission to the traditional curriculum allows the student to enroll in nursing courses during the first semester at the college. In order to qualify for direct admission to the traditional curriculum, applicants will be expected to have met the following criteria; however, final admission decisions rest with the evaluators.
Criteria:
 - ACT composite of 20 or above in each of the four components (English, Math, Reading and Science Reasoning) or combined SAT score of 950 or above.
 - Grade of "B" or better in two high school general science courses or a grade of "C" or better in one college level general biology course.
 - Transfer credit or ability to be enrolled in Biology 270, Math 111, and English 190.
 - Cumulative GPA of 2.0 or better for all transferred college credits.
2. Provisional Admission. Applicants who do not qualify for direct admission may be granted provisional admission. Using the following guidelines, the student and their academic advisor will develop an Individual Academic Progression Plan (IAPP):
 - If ACT below 18 in Reading, take READ 100
 - If ACT below 18 in English or SAT below 400 in English, take Language Proficiency Test
 - If ACT below 20 in Math or SAT below 500 in Math, take MATH 110
 - If ACT below 20 in Science, take BIOL 111

Note: Depending upon the student's academic success within the IAPP, they may then progress to the nursing course sequence in the appropriate semester.

Note: the IAPP may require additional semesters.

LPN-BSN TRACK ADMISSIONS

1. Direct Admission
 - Current unencumbered license as a licensed practical nurse.
 - Transcript of all academic work from an approved program in Licensed Practical Nursing program (LPN).
 - Achieve at least a passing score on a standardized placement test administered by the nursing department.
 - A list of work experience since graduation
2. Provisional Admission

Provisional admission may be granted to an LPN applicant who does not achieve the passing score on a standardized placement test. The achievement of a cumulative GPA of 2.25 after the first semester will remove provisional status.

RN-BSN TRACK ADMISSIONS

1. Direct Admission

Successful applicants will meet the following criteria:

 - Current, unencumbered license as a registered professional nurse
 - Graduate from an approved/accredited associate or diploma program in nursing
 - Transcript of all prior academic work with a GPA of 2.0 or greater
2. Provisional Admission

Provisional admission may be granted to an RN applicant who does not meet the minimum cumulative GPA requirement of 2.0. An Individual Academic Progression Plan (IAPP) will be developed to assist the student to achieve the minimal GPA.

Progression within the Nursing Major

Policy: Once the student enters the nursing major, progression within that student's nursing course sequence depends upon the student being able to maintain the following:

- a) A cumulative GPA of 2.25 or higher
 - b) A grade of "C" or better in all courses required within the major
(BIOL-270, 271; CHEM-190; CSCI -225; HSCI-100, 260, 373; MATH-111; PHIL-391; PSYC-220; SOCI-310 or RECR-330)
- Pre-requisites for Progression

TRADITIONAL TRACK PROGRESSION

- To take Nursing 103, 113 - Student must be a nursing major in the traditional track
- To take Nursing 203 and 206 - Nursing 103 and 113, Biology 270 and 271, Chemistry 190, Health Science 100 and 373, Mathematics 111, and Psychology 220 must be completed with a grade of C or better
- To take Nursing 225 - Nursing 203 and 206, Computer Science 225, and Health Science 260 must be completed with a grade of C or better
- To take Nursing 325 - Nursing 225 must be completed with a grade of C or better
- To take Nursing 368 and 418 - Nursing 325 must be completed with a grade of C or better
- To take Nursing 413, 414, 450 and 348 - Nursing 368 and 418 must be completed with a grade of C or better
- To take Nursing 415, 416 and 418 - Nursing 413, 414, 450 and 348 must be completed with a grade of C or better

LPN-BSN TRACK PROGRESSION

- To take Nursing 202 and 204 - Student must be a nursing major in the LPN-BSN track
- To take Nursing 225 - Nursing 202 and 204 must be completed with a grade of C or better
- To take Nursing 325 - Nursing 225 must be completed with a grade of C or better
- To take Nursing 348, 368, and 418 - Nursing 325 must be completed with a grade of C or better
- To take Nursing 413, 450, 402 - Nursing 348, 368, and 418 must be completed with a grade of C or better
- To take Nursing 416, 412 - Nursing 413 and 450, 402 must be completed with a grade of C or better

RN-BSN TRACK PROGRESSION

- To take Nursing 501 and 502 - Student must be a nursing major in the RN-BSN track
 - To take Nursing 503 and 507 - Nursing 501 and 502 must be completed with a grade of C or better
 - To take Nursing 504, 505, 506 and 514 - Nursing 503 and 507 must be completed with a grade of C or better
- d) Earn a progression grade of 78% or higher on testing in all nursing courses.
- e) Earn a "Pass" grade for clinical performance in each clinical component of a nursing course

There is an established policy for advanced placement for Registered Nurses and Licensed Practical Nurses who desire to enter the traditional track rather than the LPN-BSN or the RN-BSN program tracks. The Department of Nursing's Admission and Progression Committee will evaluate transfer courses for consideration of placement within the progression plan.

NURSING TRADITIONAL TRACK

leading to a Bachelor of Science in Nursing Degree

Division of Health Sciences

Department of Nursing

Biology	270	(4)	Anatomy and Physiology I
Biology	271	(4)	Anatomy and Physiology II
Chemistry	190	(4)	Introduction to Chemistry
Computer Science	225	(3)	Medical Informatics.
Health Science	100	(2)	Health Care Terminology
Health Science	260	(2)	Nutrition
Health Science	373	(1)	Cardiopulmonary Resuscitation (or have a current AHA Health Care provider card)
Mathematics	111	(3)	Math for Health Careers
Philosophy	391	(3)	Ethical Perspectives on Health Related Issues
Psychology	220	(3)	Human Development
Sociology	310	(3)	Social Gerontology
or			
Recreation	330	(3)	Therapeutic Recreation for the Aging

PLUS the following professional courses:

Nursing	103	(2)	Introduction to the Profession of Nursing: The Art
Nursing	113	(2)	Introduction to the Profession of Nursing: The Science
Nursing	203	(5)	Fundamentals of Nursing
Nursing	206	(3)	Health and Physical Assessment
Nursing	225	(10)	Nursing Care of Adults I
Nursing	325	(10)	Nursing Care of Adults II
Nursing	348	(5)	Nursing Care of the Childbearing Family
Nursing	368	(4)	Acute Psychosocial Nursing
Nursing	413	(3)	Community Mental Health Nursing
Nursing	414	(1)	Member of the Profession: Found. of Community As Client
Nursing	415	(4)	Member of the Profession: Community as Client
Nursing	416	(6)	Leading & Managing in the Health System
Nursing	418	(6)	Nursing Care of the Pediatric Client
Nursing	450	(3)	Nursing Research
Nursing	491	(1)	Improving Critical Thinking through Test-Taking Strategies

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

PLUS

the student must earn a grade of "C" or higher in all required nursing and support courses, pass all required standardized examinations, have a cumulative grade point of 2.25 and pass the department comprehensive, a standardized examination.

NURSING LPN-BSN TRACK

leading to a Bachelor of Science in Nursing Degree

**Division of Health Sciences
Department of Nursing**

The Alderson-Broaddus College Department of Nursing offers a Nursing LPN-BSN Degree Track to provide licensed practical nurses with a flexible, adult learning based educational opportunity culminating in a Bachelor of Science degree in nursing. The program format allows students to earn the bachelor's degree by attending convenient classes that meet one weekend a month plus two clinical days per month for 36 months.

Required Courses:

Nursing		202	(4)	Lifespan Physical and Health Assessment
Nursing	204	(3)		Transition to Professional Nursing for LPN
Nursing	225	(10)		Nursing Care of Adults I
Nursing	325	(10)		Nursing Care of Adults II
Nursing	348	(5)		Nursing Care of the Childbearing Family
Nursing	368	(4)		Acute Psychosocial Nursing
Nursing	402	(3)		Community Nursing Leadership I
Nursing	412	(2)		Community Nursing Leadership II
Nursing	413	(3)		Community Mental Health Nursing
Nursing	416	(6)		Leading and Managing in the Health System
Nursing	418	(6)		Nursing Care of Children
Nursing	450	(3)		Nursing Research
Computer Science	225	(3)		Medical Informatics
Philosophy	391	(3)		Ethical Perspectives on Health Related Issues
Psychology	220	(3)		Human Development

PLUS:

3 credits in Gerontology

PLUS:

Credit by escrow. Upon completion of 12 credits at Alderson-Broaddus College with a cumulative GPA of 2.25 or higher, the LPN student will receive 20 hours of elective nursing credit.

- Biology 270, Anatomy and Physiology I – 4 semester hours
- Biology 271, Anatomy and Physiology II – 4 semester hours
- Chemistry 190, Introduction to Chemistry – 4 semester hours
- Health Sciences 100, Health Care Terminology – 2 semester hours
- Health Sciences 260, Nutrition, 2 semester hours
- Nursing 203, Fundamentals of Nursing – 4 semester hours.

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Adult Learning Credit Formula

Credit for courses completed at Alderson-Broaddus College will be awarded following the adult learning formula: 3 academic credits are awarded for 20 contact hours in a lecture course. Clinical credits are awarded following the established formula of 1 academic credit for 3 contact hours per week. A contact hour is considered fifty minutes.

Among REQUIREMENTS FOR GRADUATION, the student must earn a grade of "C" or higher in all required nursing and support courses, pass all standardized tests, have a cumulative grade point of 2.25, and pass the department comprehensive, a standardized examination.

NURSING RN-BSN TRACK

leading to a Bachelor of Science in Nursing Degree
Division of Health Sciences
Department of Nursing

The Alderson-Broaddus College Department of Nursing developed the RN- BSN Degree Completion Program to meet the needs of registered nurses who have an associate degree or diploma in nursing. The program format allows students to earn the bachelor's degree by attending convenient classes that meet one weekend per month on a year-round basis.

Required Courses

Nursing	501	(4)	Conceptual Foundation of Professional Nursing
Nursing	502	(4)	Lifespan Physical and Health Assessment for RNs
Nursing	503	(4)	Leading and Managing in the Health System I
Nursing	504	(3)	Leading and Managing in the Health Systems II
Nursing	505	(3)	Community Mental Health Nursing
Nursing	506	(3)	Community Nursing Leadership
Nursing	507	(3)	Nursing Research
Nursing	514	(2)	Leading and Managing in the Health System - Clinical

Credit Toward Degree Completion:

1. Credit by examination (see policies applicable to the overall college) .
2. Credit by transfer
3. Credit by escrow. Upon completion of 10 semester credit hours at Alderson-Broaddus College in the nursing major and a grade point average of 2.5 (on a 4.0 scale), the student may receive up to 40 semester hours of credit toward the required 128 credits necessary for graduation
4. Credit for prior learning. Students may earn credit through a portfolio that validates their professional and personal learning acquired through life experience

Adult Learning Credit Formula

Credit for courses completed at Alderson-Broaddus College will be awarded following the adult learning formula: 3 academic credits are awarded for 20 contact hours in a lecture course. Clinical credits are awarded following the established formula of 1 academic credit for 3 contact hours per week. A contact hour is considered fifty minutes.

Among REQUIREMENTS FOR GRADUATION, the student must earn a grade of "C" or higher in all required nursing and support courses, have a cumulative grade point of 2.25, pass all required Standardized tests, and pass a comprehensive examination, planned and administered by the department.

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Nursing with School Nurse Certification Option:

Through the cooperative efforts of the Department of Nursing and Department of Education, a School Nurse Certification Option is offered. Graduates who have completed the requirements for this option and who have passed the NCLEX-RN Exam may apply for the certification from the West Virginia Department of Education through the Division of Education

Additional Required Courses:

- Nursing 350 (2) Educational Foundations and School Law
- Pre-Professional Skills Test: (P.P.S.T.) - Basic skills standardized test offered by ETS to measure competency in mathematics, reading, and writing.
- Admission to the Division of Education and Special Programs.
- Communication 130 and English 200 should be used to fulfill Liberal Studies requirements

Physical Education

leading to a Bachelor of Arts Degree

Physical Education Teaching Specialization

Division of Education and Special Programs

Department of Education

Required Courses:

Biology	270	(4)	Anatomy and Physiology I
Biology	271	(4)	Anatomy and Physiology II
Health Education	250	(3)	Personal Health
Physical Education	200	(3)	Philosophy and Orientation in Physical Educ and Recreation
Physical Education	220	(2)	Elementary Physical Education

Physical Education	251	(3)	Theory and Practice in Team Sports
Physical Education	252	(3)	Theory and Practice in Individual Sports
Physical Education	281	(1)	Square and Folk Dancing
Physical Education	305	(3)	Kinesiology/Biomechanics
Physical Education	315	(3)	Physiology of Exercise
Physical Education	325	(3)	Adapted Physical Education/Recreation
Physical Education	335	(2)	Safety and First Aid
Physical Education	350	(1)	Assisting in Physical Education
Physical Education	360	(3)	Psychological and Soc Principles of Physical Education
Physical Education	400	(3)	Organization, Administration, and Management
Physical Education	420	(3)	Tests and Measurements in Physical Education

PLUS ONE of the following courses:

Psychology	190	(3)	General Psychology
Psychology	230	(3)	Human Adjustment
Psychology	400	(3)	Social Psychology
Psychology	430	(3)	Counseling and Guidance

PLUS one course selected from this area:

Physical Education	211	(1)	Intermediate Swimming
Physical Education	212	(1)	Advanced Swimming
Physical Education	371	(3)	Lifeguarding

PLUS

The Professional Education requirements:

Education	180	(1)	21st Century Learning Tools: Computer Skills for Teachers
Education	200	(3)	Foundations of American Education
Education	270	(3)	Development in Early Childhood through Adolescence
Education	280	(2)	21st Century Learning Tools: Instructional Tech Resources
Education	290	(3)	Psych Foundations in Early Childhood through Adolescence
Education	330	(3)	Secondary General Methods
Education	334	(1)	Science Methods: Grade 9-Adult Learners
Education	339	(1)	Lab - Adolescent (9-Adult) Level
Education	360	(2)	Educational Issues in a Multicultural and Global Society
Education	380	(.5)	21st Century Learning Tools: Integrating Tech into Teaching
Education	480	(.5)	Professional Communication Using Technology
Reading	300	(3)	Reading in the Secondary Schools
Special Education	200	(3)	Areas of Exceptionality in Special Education
Special Education	340	(3)	Creating Inclusive Classrooms: Strategies for Teachers
Education	500	(12)	Student Teaching
Education	550	(1)	Seminar in the Philosophy of Teaching

PLUS:

Education	313	(1)	Physical Education Methods Pre K Elementary learners
Education	333	(2)	Physical Education Methods Grades 5-Adult learners

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Health Education Pre K-Adult Specialization

Must be coupled with the Physical Education major.

Required Courses (required in addition to Physical Education program):

Health Education	280	(2)	Contemporary Health Issues
Health Education	350	(3)	School Health and School Health Programs
Health Science	260	(2)	Nutrition
Health Science	400	(3)	Community Health Education and Promotion
Physical Education	270	(1)	Personal Wellness and Fitness

PLUS:

Professional Education requirements for Physical Education

PLUS:

Education	317	(1)	Health Education Methods Pre K-Elementary Learners
Education	337	(1)	Health Education Methods Grades 5-Adult learners

Political Science

leading to a Bachelor of Arts Degree

Division of Social Sciences

Required Courses:

Political Science	190	(3)	Introduction to Political Science
Political Science	200	(3)	American National Government
Political Science	210	(3)	State and Local Government
Political Science	440	(3)	World Political Ideology
Political Science	550	(3)	Seminar in Political Science

PLUS seven courses, including at least one from each of the following groups of courses below:

Section 1: American

Political Science	300	(3)	American Political Parties and Elections
Political Science	410	(3)	United States Diplomatic History

Section 2: International

Political Science	320	(3)	Comparative Government
Political Science	330	(3)	International Relations
Economics	460	(3)	International Economics

Section 3: Legal System

Political Science	250	(3)	Introduction to Law and Judicial Process
Political Science	310	(3)	Constitutional Law
Political Science	370	(3)	American Legal History

Courses/Work below may be substituted with advisor's permission:

Political Science	430	(3)	Public Policy
Political Science	570/ 610	(3)	Guided & Independent Study
Political Science	500	(3)	Internship in State or Federal Government

Allied Fields: Four courses in TWO allied fields (two courses in each field) to be chosen from among offerings in: Economics, Geography, History, Psychology*, Sociology*

*At least ONE of the following three courses must be included:

Psychology 190, Psychology 220, or Sociology 190.

Foreign Language: Four semesters of one modern foreign language are required (see policy on placement in courses.)

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Psychology

leading to a Bachelor of Arts Degree

Division of Social Sciences

Required Courses:

Psychology	190	(3)	General Psychology
Psychology	220	(3)	Human Development
Psychology	260	(3)	Statistics and Data Analysis
Psychology	301	(3)	Principles of Learning
Psychology	310	(3)	History and Systems of Psychology
Psychology	360	(3)	Research Methods
Psychology	420	(3)	Abnormal Psychology
Psychology	550	(3)	Seminar in Psychology

Plus 12 hours of credit from the options listed below, so that a minimum of 36 credit hours in psychology is completed.

Psychology	230	(3)	Human Adjustment
Psychology	303	(3)	Physiological Psychology
Psychology	395	(3)	Death and Dying
Psychology	400	(3)	Social Psychology
Psychology	430	(3)	Counseling Theories and Skills
Psychology	500	(2)	Field Practicums
Psychology	560/600	(3)	Guided and Independent Study

Allied Fields: Four courses in TWO allied fields (two courses in each field) to be chosen from among offerings in: Economics, Geography, History, Political Science, Sociology

Foreign Language: Four semesters of one modern foreign language are required (see policy on placement in courses.)

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Radiography

leading to a Bachelor of Science Degree
Division of Natural Sciences

Required Courses:

*Biology	270	(4)	Anatomy & Physiology I
*Biology	271	(4)	Anatomy & Physiology II

*A minimum of 6 hours which could be part of the 60 sem. hrs.

Natural Science	100	(3)	Success in the Sciences
Chemistry	190	(4)	Introduction to Chemistry
Chemistry	291	(4)	Principles of Organic & Biological Chemistry
Comp Science	134	(3)	Introduction to Computers
Health Science	100	(2)	Health Care Terminology
Mathematics	111	(3)	Math for Health Careers (or equivalent competence)
Philosophy	391	(3)	Ethical Perspectives of Health Related Issues
Physics	211	(4)	Introduction to Physics

** Radiography 390 (2-3) Special Topics

** Radiography 500 (2-6) Clinical Experience

**Applicable to RT certified students; handled on an individual basis.

FOREIGN LANGUAGE: Not Required.

Certification as a Radiologic Technologist is considered to satisfy the College's requirement for a comprehensive examination in the major.

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Recreational Sports Management

leading to a Bachelor of Arts Degree
Division of Education and Special Programs
Department of Health, Human Performance and Recreation

BEING PHASED OUT. NO MORE STUDENTS BEING ADMITTED AFTER JANUARY 2011.

Required Courses:

Business	120	(3)	Introduction to Marketing
Business	140	(3)	Introduction to Accounting

Business	235	(3)	Human Resource Management
Health Education	250	(3)	Personal Health
Physical Education	335	(2)	Safety Education & First Aid
Physical Education	360	(3)	Psyc & Soc Principles of Physical Education
Recreation	200	(3)	Philosophy in PE and Recreation and Sport Management
Recreation	210	(3)	Theory & Practice of Rec Leadership and Sport Management
Recreation	220	(3)	Society and Leisure
Recreation	230	(3)	Dynamics of Recreational Groups
Recreation	300	(3)	Recreation and Sports Camps
Recreation	310	(3)	Administration of the Recreation and Sport Management
Recreation	325	(3)	Adapted PE/Recreation
Recreation	330	(3)	Therapeutic Recreation for the Aging
Recreation	350	(1)	Assisting in Recreation and Sports Management
Recreation	351	(1)	Assisting in Event Planning
Recreation	352	(1)	Assisting in Sports Management and Public Relations
Recreation	353	(1)	Assisting in Field Management
Recreation	400	(3)	Recreation and Sports Management Program Planning
Recreation	500	(6)	Supervised Field Experience

FOREIGN LANGUAGE: Not Required.

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Sport Management

leading to a Bachelor of Arts Degree

Division of Education and Special Programs

Department of Health, Human Performance and Recreation

Required Courses:

Business	120	(3)	Intro to Marketing
Business	140	(3)	Intro to Accounting
Business	160	(3)	Intro to Management
Business	235	(3)	Human Resource Management
Communication	155	(3)	Introduction to Broadcasting
Communication	185	(3)	Principles and Practices of Public Relations
Communication	251	(3)	Advertising
Communication	271	(4)	Video Production
Physical Education	335	(2)	Safety Education & First Aid
Physical Education	360	(3)	Psyc & Soc Principles of Physical Education
Recreation	325	(3)	Adapted PE/Recreation
Recreation	330	(3)	Therapeutic Recreation for the Aging
Sport Management	200	(3)	Introduction to Sport Management
Sport Management	210	(3)	Theory & Practice of Rec Leadership and Sport Management
Sport Management	250	(3)	Legal Aspects and Liability in Sport and Recreation
Sport Management	230	(3)	Dynamics of Recreational Groups
Sport Management	300	(3)	Recreation and Sports Camps
Sport Management	310	(3)	Administration of the Recreation and Sport Management
Sport Management	350	(1)	Assisting in Recreation and Sports Management
Sport Management	351	(1)	Assisting in Event Planning
Sport Management	352	(1)	Assisting in Sports Mgt and Public Relations
Sport Management	353	(1)	Assisting in Field Management
Sport Management	400	(3)	Recreation and Sports Management Program Planning
Sport Management	500	(6)	Supervised Field Experience

FOREIGN LANGUAGE: Not Required.

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Therapeutic Recreation

leading to a Bachelor of Arts Degree

**Division of Education and Special Programs
Department of Health, Human Performance and Recreation**

Required Courses:

Biology	270	(4)	Anatomy & Physiology I
Biology	271	(4)	Anatomy & Physiology II
Health Education	250	(3)	Personal Health
Health Science	100	(2)	Health Care Terminology
Health Science	260	(2)	Nutrition
Applied Music	151*	(1)	Class Piano I
OR			
Applied Music	187*	(2)	Guitar
Physical Education	267	(1)	Recreational Sports
Physical Education	281	(1)	Square & Folk Dancing
Physical Education	335	(2)	Safety Education & First Aid
Psychology	220	(3)	Human Development
Psychology	420	(3)	Abnormal Psychology
Recreation	200	(3)	Philosophy & Orientation in PE & Recreation
Recreation	210	(3)	Theory & Practice of Recreational Leadership
Recreation	220	(3)	Society and Leisure
Recreation	230	(3)	Dynamics of Recreational Groups
Recreation	240	(3)	Introduction to Therapeutic Recreation
Recreation	310	(3)	Administration of the Leisure Program
Recreation	320	(3)	Program Planning in Therapeutic Recreation
Recreation	325	(3)	Adapted PE/Recreation
Recreation	330	(3)	Therapeutic Recreation for the Aging
Recreation	415	(3)	Therapeutic Recreation Services for Special Populations
Recreation	501	(6)	Supervised Field Experience in Therapeutic Recreation
Sociology	190	(3)	Introduction to Sociology
Communication	160	(1)	Analysis and Performance in the Theatre

ONE of the following:

Art	115	(1)	Drawing
Art	120	(1)	Painting
Art	125	(1)	Pottery

ANY THREE courses selected from:

Physical Education	211-212	(1)	Aquatics
Physical Education	232-236	(1)	Coed Sports
Physical Education	242-244	(1)	Coed Sports
Physical Education	261-269	(1)	Individual and Dual Sports (PE 267 may not be used for)
Physical Education	371	(3)	Lifeguard Training

*Not approved yet.

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

Visual Arts

leading to a Bachelor of Arts degree

Division of Humanities

STUDENTS MUST CONCENTRATE IN AT LEAST ONE OF THE FOLLOWING AREAS:

Digital Arts, Drawing, Painting, Printmaking, or Photography.

Required Courses:

Art	100	(3)	Art Fundamentals
Art	105	(1)	Success in Visual Arts
Art	115	(3)	Drawing I
Art	118	(3)	Printmaking I
Art	120	(3)	Painting I
Art	135	(3)	Photography I
Art	125	(3)	Ceramics I
OR			
Art	140	(3)	Sculpture I

Art	150	(3)	Introduction to Digital Arts
Art	200	(3)	Art History I
Art	210	(3)	Art History II
Art	215, 218, 220, 235, or 250	(3)	Concentration Topic II
Art	315, 318, 320, 335, or 255	(3)	Concentration Topic III
Art	415, 418, 420, or 435	(3)	Concentration Topic IV
Art	390	(3)	Special Topics in Art
Art	460	(3)	Solo Exhibit
Art	510	(1)	Senior Seminar
Humanities	100	(2)	Introduction to the Humanities
Humanities	550	(3)	Seminar in the Humanities

STUDIO ELECTIVES: One additional 3-credit studio course at the 100, 200, or 300 level that has not yet been taken.

OFF-CAMPUS SHOW OF WORK: All students are required to independently arrange a show of at least one piece of their artwork in a venue off campus during the course of their program. Venue must be approved by the student's advisor.

COMMUNITY SERVICE PROJECT: All students are required to participate in a project that engages or serves a specific community during the course of their program. This project can be a joint effort by more than one Visual Arts major. Projects must be approved by the student's advisor.

EXIT INTERVIEW: Students must participate in an exit interview as a requirement for graduation.

PORTFOLIO REVIEW: In order to continue into the second year of the program, all students must submit for faculty review a portfolio of creative work completed during the first year of the program. Students who do not pass this review will have the option of transferring to another major program at A-B, but will not be allowed to continue in the Visual Arts major. Portfolio Review occurs during finals week of the student's second semester (usually the spring of the first year). Timing of the review for transfer students will be determined on a case-by-case basis.

FOREIGN LANGUAGE: Four semesters of one modern foreign language are required.

HUMANITIES CORE: In addition to the requirements listed for each major and the requirements of the college liberal studies program, all students with a Humanities major are required to complete 12 credits in the Humanities Core: 6-8 credits from block I, 2-4 credits from block II, 2-4 credits from block III. Any course used to fulfill a requirement in the liberal studies program may NOT be used to fulfill a requirement in the Humanities core. Other than those courses used to fulfill a liberal studies program requirement, however, students may use courses required in their majors or minors to fulfill Humanities Core requirements as well.

I. CULTURAL HISTORY:

Art 190, 200, 210, 211, English 220, 225, 285, 290, 350, 355, 360, 365, 375, 410, French 100, German 100, History 220, 320, 340, History/Religion 330, 360, International Studies 300, 350, Philosophy/Religion 320, Religion 280, Sociology 230, Communication 190. Students may use six hours of a second foreign language (other than French 100 or German 100) - in addition to the 12 hours of a modern foreign language required in all Humanities majors - in this block. Foreign language courses taken in high school may NOT be used for this requirement (6-8 credits)

II. CRITICAL THINKING PROCESS:

Philosophy 290, Philosophy 310, Philosophy 340, Philosophy 391, Communication 170, Communication 320, Communication 355 (2-4 credits)

III. ARTISTIC EXPRESSION:

Art 100, 115, 118, 120, 125, 135, 140, 150, 215, 220, 225, 235, 250; English 230; MUAP 130, 151, 181, 182, 183, 184, 185, 186, 187, 188, 221, 222, 223, 230, 240, 250, 251, 270; Speech 180, 360 (2-4 credits)

Among REQUIREMENTS FOR GRADUATION - completion of the Liberal Studies Program

ASSOCIATE DEGREE PROGRAMS

ACADEMIC POLICIES for Associate Degrees

1. 2.00 Cumulative grade point average in all courses required for graduation
2. All prerequisites must be met for admission to specific courses
3. Admissions standards are identical to those in effect for bachelor's degree program.
4. Associate degree students will be eligible for consideration for Dean's List on the same basis as bachelor-degree students.
5. Associate degree students will be eligible for consideration for class honors on the same basis as bachelor-degree students.
6. No more than four one-credit courses may be counted among the electives selected to meet graduation requirements.
7. Twenty of the last forty semester hours must be taken under auspices of Alderson-Broadbush College.

Business

leading to an Associate of Science Degree

Required Courses:

Business	120	(3)	Introduction to Marketing
Business	140	(3)	Introduction to Accounting I
Business	150	(3)	Introduction to Accounting II
Business	160	(3)	Introduction to Management
Business	184	(3)	Computers in Business
Business	250	(3)	Ethics in Business
Business	251	(3)	Business Statistics
Business	281	(3)	Business Law I
Business	290	(3)	International Business
Economics	201	(3)	Macro-Economics

PLUS THREE other courses from any other BUSINESS OFFERING:

(3)
(3)
(3)

Computer Science

leading to an Associate of Science Degree

Required Courses:

Computer Science	261	(3)	Computer Science I
Computer Science	262	(3)	Computer Science II
Computer Science	281	(3)	Architecture & Assembler I
Computer Science	361	(3)	Operating Systems
Natural Science	100	(3)	Success in the Sciences

PLUS AT LEAST 15 HOURS FROM:

Computer Science Classes 200 level and above

EDUCATION

leading to an Associate of Arts Degree

Required Courses:

Education	200	(3)	Foundations of American Education*
Special Education	200	(3)	Areas of Exceptionality in Special Education*
Education	270	(3)	Development in Early Childhood and Adolescence*
Education	180	(1)	21st Century Learning Tools: Computer Skills for Teachers
Education	280	(1)	21st Century Learning Tools: Instructional Tech Resources
Education	290	(3)	Psych Foundations in Early Childhood through Adolescence *
Education	350	(1)	Instructional Technology in the Class

(Approved as a “standing substitution” for Education 380 and 480 for the liberal studies requirement)
OR

Computer Science	171	(1)	Computer Skills in the Music Classroom
Computer Science	172	(1)	Music Software for the Teacher-Musician
Computer Science	173	(1)	Music Hardware for the Teacher-Musician

*Courses which include a 10 hour field experience in the schools requirement

LIBERAL STUDIES COURSES PROGRAM: As outlined on appropriate Liberal Studies Check Sheet.
(English 200, Communication 130 and Education 180, 280, and 350 are required for Associate of Education majors in fulfilling the liberal studies requirements.)

ADDITIONAL CREDIT REQUIREMENTS:

Only credits towards liberal studies requirements towards a Bachelor degree, OR credits towards an Department of Education approved content specialization area, OR credits towards professional education requirements, will be counted for the remaining credits of the Associate of Education Degree.

REQUIREMENTS FOR GRADUATION:

- The student must complete a minimum of 62 credit hours;
- The student must have a grade point average of 2.00 in the major course work.

GENERAL STUDIES

leading to an Associate of Arts Degree

Required Courses:

- Twenty-one semester hours in one of the three liberal studies divisions:
Humanities, Natural Sciences, Social Sciences
- Fifteen semester hours in each of the other two liberal studies divisions:
Humanities, Natural Sciences, Social Sciences
- For the purposes of this degree, Music courses may be used for the Humanities Division.
- The Liberal Studies Check Sheet for Associates Degrees must be completed.

Among the REQUIREMENTS FOR GRADUATION, the student must have at least 66 semester hours and a 2.00 average.

MUSIC

leading to an Associate of Arts degree

Required Courses

Applied Music	050	(0)	Music Convocation
Four semesters minimum		(S)	_____
Applied Music	130 or	(1)	Class Voice (non-voice majors)
Applied Music	131	(1)	Diction for Singers (voice majors only)
Applied Music	151	(1 or bypass)	Class Piano I
Applied Music	152	(1 or bypass)	Class Piano II
Applied Music	153	(1 or bypass)	Class Piano III
Some students may be allowed to bypass some piano classes but still must reach required proficiency			
Applied Music	18_	(TBA)	<i>Lessons required by program*</i>
Six credits. minimum			_____
Applied Music	2__	(1)	<i>Ensemble required by program**</i>
Five semesters minimum		(S)	_____
Music	111	(2)	Musicianship I
Music	113	(1)	Theory Rudiments

Music	115	(2)	End for the Study of Music: Intro the Music Profession
Music	121	(1)	Foundations of American Jazz and World Music
Music	150	(3)	Theory I
Music	151	(2)	Musicianship II
Music	205	(2)	Theory II
Music	201	(2)	Musicianship III
Music	355	(2)	Conducting I
	OR		
Applied Music	191	(2)	Applied Conducting Lesson
(This option will be necessary for students entering in Odd/Even years due to sequence of classes)			
Music	190	(2)	Introduction to Music
Music	410	(2)	History and Literature of Music II
MU__	___	(1)	<i>Pedagogy course required by program***</i>

GPA REQUIRED IN THE MAJOR: 2.00 cumulative average

**Program requirements for private lessons:*

1. pass a minimum of six semester hours of lessons on principal instrument or voice
2. take a jury on principal instrument or voice each semester until exit level reached
3. reach program exit level on principal instrument (Level 4)

***Program requirements for ensembles:*

1. pass a minimum of four semesters of ensemble participation in principal area
 - a. VOICE majors must always participate in Concert Choir
 - b. BRASS, WOODWIND, or PERCUSSION majors must always participate in Concert Band
 - c. GUITAR majors must always participate in an ensemble determined by the music faculty

KEYBOARD (organ or piano) majors must participate in an ensemble determined by the music faculty UNTIL such time as the music faculty deems them capable of accompanying for students in the department (3-5 hrs/week as assigned). At that point, accompanying responsibilities take the place of the ensemble requirement.

2. pass a minimum of one semester of a second ensemble

Note: ordinarily, ensemble participation will occur during the fall and spring semesters of one academic year. With permission of the music faculty, and in unusual circumstances, students may be allowed to participate in an ensemble for two semesters which occur in different academic years.

Note: music faculty may, at its own discretion and for the sake of optimizing the operation of department-sponsored ensembles, substitute appropriate ensembles for the above-mentioned requirements.

Note: students receiving music scholarship may have additional ensemble requirements above and beyond those required by their program.

****Program requirements for pedagogy course:*

pass a one-credit pedagogical techniques class in the principal instrument or voice

- a) VOICE majors must take MUAP 185.01 a one credit applied lesson devoted to vocal technique studies
- b) BRASS, WOODWIND, or PERCUSSION majors must take the course in the Music Education instruments sequence which corresponds to the student's principal instrument (chosen from MUED 270, MUED 271, or MUED 272).
- c) PIANO majors must take MUED/MUAP 154 Piano Class IV/Pedagogy.
- d) ORGAN and GUITAR majors must take MUAP 182 or MUAP 187 respectively, a one credit applied lesson devoted to pedagogical techniques on that instrument.

NATURAL SCIENCE

leading to an Associate of Science Degree

Required Courses:

Chemistry	200	(4)	General Chemistry I
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Chemistry	210	(4)	General Chemistry II
Chemistry	300	(4)	Principles of Organic Chemistry
Chemistry	305	(4)	Principles of Biochemistry
OR			
Biology	370	(4)	Cell Biology
Biology	210	(4)	General Biology I
Biology	240	(4)	Microbiology
Biology	270	(4)	Anatomy & Physiology I
Biology	271	(4)	Anatomy & Physiology II
Natural Science	100	(3)	Success in the Sciences

ALLIED FIELDS the following courses are REQUIRED:

Computer Science	134	(3)	Introduction to Computers
Mathematics	113	(3)	College Algebra

LIBERAL STUDIES PROGRAM: As outlined on appropriate Liberal Studies Check Sheet.

Among REQUIREMENTS FOR GRADUATION, the student must have a 2.00 average in the major and meet all associate degree requirements.

The Liberal Studies Program for Bachelor Degrees Majors

All degree earning students are required to meet these goals by completing the Liberal Studies Program. Within the Liberal Studies Program, no courses can be counted as meeting more than one goal. However, double counting will be permitted between liberal studies courses and courses required in a student's major and (if elected) minor.

The goals and their respective course offerings are as follows:

Group I Goals

By successfully completing a proficiency test, a student may bypass a course or courses in Group I and thus meet the related goal. Students bypassing courses in Group I do NOT receive academic credit.

A. Demonstration of effective use of written and spoken English

(by-pass or 9 semester hours):

3 semester hours from English 190.

3 semester hours from English 200, 260.

3 semester hours from Communication 130, 150

B. Demonstration of basic skills in the use of mathematics to solve problems encountered in a technological society (by-pass or 3 semester hours):

3 semester hours from Mathematics 111, 113, 141, 151, 166, 221, 222, 251, Psychology 260

C. Demonstration of basic computer literacy in areas such as word processing/data base management/basic programming (by-pass or 3 semester hours):

3 semester hours from Computer Science 134, 225, 261; Business 184 or (Computer Science 171, 172, and 173) or (Education 180, 280, 380, 480).

Group II Goals

All students are required to successfully complete course work as indicated for each goal in Group II.

A. Demonstration of ability to apply scientific method to investigation of the natural world and understanding of conclusions which result concerning the nature of the universe. A student must pass both the lecture and the laboratory components of a course.

6 credit hours from Astronomy 190; Biology 110, 210, 211, 245, or 240; Chemistry 190, 200, 210; Environmental Science 210, 211; Geology 190; Natural Science (180, 181, 182), 185, 295; Physics 211, 221, 222; (Biology 270 and 271 together will meet lecture requirement, but not lab.)

B. Demonstration of basic understandings of the role of philosophical reflection and Christian commitment in world view and in the moral and ethical valuing and decision-making of the individual and society.

- 3 semester hours from Religion 290, 295.
- 3 semester hours from Philosophy 190, 310, 320,340 Religion/Philosophy 391; Honors 200, 400, Religion280.
- C. Demonstration of basic understanding of humans as social, psychological, and political beings responsible for their own economic, social, political structures, and organization.**
 - 3 semester hours from Psychology 190, 220; Sociology 190; Honors 200, 400.
 - 3 semester hours from Economics 201, 211; Political Science 190, 200, 210; Honors 200, 400.
- D. Demonstration of an understanding of Western historical tradition as the context which shapes experience, meanings, and values.**
 - 6 semester hours from History 150,160, 200, 210, 220; International Studies 160; Philosophy/Political Science 400, 420. Either HIST 160 or INST 160 may be used to meet requirement
- E. Demonstration of understanding of the value and role of human expression as found in literature.**
 - 3 semester hours from English 220, 281, 282, 283, 284, 285, 290, 350, 355, 360, 365, 375.
- F. Demonstration of an understanding of the value and role of aesthetic expression as found in the fine arts and demonstration of understanding and application of the principles of physical and/or mental health and fitness. Four semester hours are required, with at least one semester hour from each area.**
 - AREA 1:** Art 100, 115, 118, 120, 125, 135, 150, 190, 200, 210,215, 220, 225, 315, 320, 325, 390; English 230; Music 100, 121, 190; Applied Music 130, 151-154, 181, 182, 183, 184, 185, 186, 187, 188, 221, 222, 223, 230, 240, 250, 251, 260; Music Education 200; Communication 190, 360.
 - AREA 2:** Health Education 250; 350; Nursing 202; Physical Education 190, 211, 212, 232, 233, 236, 242, 244, 263, 264, 265, 266, 267, 268, 269, 270, 274, 277, 281; Psychology 230; Communication 150.

Group III Goals

Group III goals are process goals that will be accomplished throughout a student's college career. All courses in the curriculum have been designed with these goals in mind. THEREFORE SPECIFIC COURSES ARE NOT LISTED UNDER EACH OF THE FOLLOWING GOALS. However, a "capstone" course is required in each major field of study to ensure the meeting of Group III Goals.

- A.** Development of the ability to learn; development of information literacy and the ability to build knowledge bases for specific purposes; the overall development of lifelong learning skills
- B.** Development of basic skills in logical, creative and critical thinking as well as problem solving
- C** Development of understanding of the interrelationships among the major branches of learning

Specific policies and procedures guide the Liberal Studies Program administration. These policies and procedures can be found in the Academic Program Manual as well as being available from faculty advisors. Students are encouraged to familiarize themselves with this information. Students and their advisors monitor achievement of the Liberal Studies Program by the use of a Liberal Studies Check Sheet.

The Liberal Studies Program for Associate Degree Majors

All associate degree students are required to meet the same liberal studies goals by completing the Associate Degree Liberal Studies Program during their collegiate education. No courses can be counted as meeting more than one goal. However, double counting will be permitted between liberal studies courses and courses required in a student's major and (if elected) minor. Three credits must be earned in each Goal area with the exception of Goal IIE. Goal IIE requires that 2 credit hours are earned, at least one credit from each area. The goals and their respective course offerings are as follows:

- A. Demonstration of effective use of written and spoken English (bypass or 9 semester hours):**
 - 3 semester hours from English 190.
 - 3 semester hours from English 200, 260.
 - 3 semester hours from Speech 130, 150
- B. Demonstration of basic skills in the use of mathematics to solve problems encountered in a technological society (by-pass or 3 semester hours):**
 - 3 semester hours from Mathematics 111, 113, 141, 151, 166, 221, 222, 251, Psychology 260

C. Demonstration of basic computer literacy in areas such as word processing/data base management/basic programming (by-pass or 3 semester hours):
3 semester hours from Computer Science 134, 225, 261; Business 184 or (Computer Science 171, 172, and 173) or (Education 180, 280, 380, 480).

Group II Goals

All students are required to successfully complete course work as indicated for each goal in Group II.

A. Demonstration of ability to apply scientific method to investigation of the natural world and understanding of conclusions which result concerning the nature of the universe. A student must pass both the lecture and the laboratory components of a course.

3 credit hours from Astronomy 190; Biology 110, 210, 211, 245, or 240; Chemistry 190, 200, 210; Environmental Science 210, 211; Geology 190; Natural Science 180, 181, 182, 185; Physics 211, 221, 222; (Biology 270 and 271 together will meet lecture requirement, but not lab.)

B. Demonstration of basic understandings of the role of philosophical reflection and Christian commitment in world view and in the moral and ethical valuing and decision-making of the individual and society.

3 semester hours from Religion 290, 295, Philosophy 190, 310, 320, 340; Religion/Philosophy 391; Honors 200, 400, Religion 280.

C. Demonstration of basic understanding of humans as social, psychological and political beings responsible for their own economic, social, political structures and organization.

3 semester hours from; Psychology 190, 220; Sociology 190; Honors 200, 400, Economics 201, 211; Political Science 190, 200, 210; Honors 200, 400.

D. Demonstration of an understanding of Western historical tradition as the context which shapes experience, meanings and values.

3 semester hours from History 150, 160, 200, 210, 220; Philosophy/Political Science 400, 420.

E. Demonstration of understanding of the value and role of human expression as found in literature.

3 semester hours from English 220, 281, 282, 283, 284, 285, 290, 350, 355, 360, 365, 375.

F. Demonstration of an understanding of the value and role of aesthetic expression as found in the fine arts and demonstration of understanding and application of the principles of physical and/or mental health and fitness. Two semester hours are required, with at least one semester hour from each area.

AREA 1: Art 100, 115, 118, 120, 125, 130, 135, 150, 190, 200, 210, 215, 220, 225, 315, 320, 325; English 230; Music 100, 121, 190; Applied Music 130, 151-154, 181, 182, 183, 184, 185, 186, 187, 188, 221, 222, 223, 230, 240, 250, 251, 260; Music Education 200; Communication 191, 210, 291, 292.

AREA 2: Health Education 250; 350; Physician Assistant Studies 560; Nursing 202; Physical Education 190, 211, 212, 232, 233, 236, 242, 244, 263, 264, 265, 266, 267, 268, 269, 270, 274, 277, 281; Psychology 230; Communication 150.

Group III Goals are not required of students earning an associate degree.

MINORS

Accounting

Required courses:

Business	140	(3)	Introduction to Accounting I
Business	150	(3)	Introduction to Accounting II
Business	260	(3)	Intermediate Accounting
Business	300	(3)	Cost Accounting
Business	410	(3)	Federal Income Tax I

Plus ONE course chosen from the following:

Business	265	(3)	Intermediate Accounting II
Business	311	(3)	Auditing I
Business	415	(3)	Federal Income Tax II

Athletic Coaching

Required courses:

Athletic Training	270	(3)	Athletic Injury Control and Management
Health Science	260	(2)	Nutrition
Health Science	261	(1)	Strength Training and Conditioning
Physical Education	251	(3)	Theory and Practice in Team Sports
Physical Education	252	(3)	Theory and Practice in Individual Sports
Physical Education	280	(3)	Coaching: Theory, Tactics, Officiating and Legal Aspects
Physical Education	335	(2)	Safety and First Aid
Physical Education	500	(4)	Internship

Audio Engineering

Required Courses:

Computer Science 173 (1) Intro to Music Hardware

* Students must take this course PRIOR to going to the Recording Workshop

Plus ONE of the following courses:

Business 160 (3) Intro to Management

Communication 155 (3) Intro to Broadcasting

Communication 251 (3) Advertising

Communication 271 (3) Video Production

**** Recording Workshop Courses (Off Campus)**

MUS 310 (9) Recording Eng/Music Prod. (5 weeks)

MUS 311 (1) Recording Studio Maintenance (1 week)

MUS 312 (1) Adv. Recording and Production (1 week)

MUS 313 (1) New Tech. Production (1 week)

** Recording Workshop Courses are transferred to A-B through Capital University

Biology

Required courses:

Biology 210 (4) General Biology I

Biology 211 (4) General Biology II

Biology 240 (4) Microbiology

Plus 6 semester hours of biology courses, 4 semester hours of which must be in courses numbered 300 or above.

Business Administration

Required courses:

Business 140 (3) Introduction to Accounting I

Business 160 (3) Introduction to Management

Plus ONE of the following courses:

Economics 201 (3) Macro-Economics

Economics 211 (3) Micro-Economics

Plus THREE of the following courses:

Business 120 (3) Introduction to Marketing

Business 184 (3) Computers in Business

Business 235 (3) Human Resource Management

Business 250 (3) Ethics in Business

Business 251 (3) Business Statistics

Business 281 (3) Business Law I

Chemistry

Track A

Chemistry 200 (4) General Chemistry I

Chemistry 210 (4) General Chemistry II

Chemistry 310 (4) Organic Chemistry I

Chemistry 311 (4) Organic Chemistry II

Chemistry 370 (4) Biochemistry

Track B

Chemistry 200 (4) General Chemistry I

Chemistry 210 (4) General Chemistry II

Chemistry 215 (4) Inorganic Chemistry

Chemistry 300 (3) Principles of Organic Chemistry

Chemistry 305 (4) Principles of Biochemistry

Chemistry	250	(4)	Analytical and Instrumental Methods
OR			
Chemistry	315	(4)	Physical Chemistry

Communications

Required Courses:

Communication	130	(3)	Speaking Effectively
Communication	150	(3)	Interpersonal Communications

Plus THREE of the following:

Humanities	280	(3)	Principles of Human Communication
Journalism	200	(3)	Introduction to Journalism
Journalism	210	(3)	News Editing and Production
Communication	155	(3)	Introduction to Broadcasting
Communication	175	(3)	Broadcast Writing
Communication	271	(3)	Video Production
Communication	320	(3)	Debate: Critical Thinking and Problem Solving
Communication	330	(3)	Dynamics of Advanced Oral Communications
Communication	355	(3)	Mass Communications Law and Ethics
Communication	360	(3)	Oral Interpretation

Plus THREE semester hours from the following*:

Journalism	160	(1)	Journalism Practicum
Communication	160	(1)	Analysis and Performance in Theater
Communication	170	(1)	Intercollegiate Debate
Communication	180	(1)	Individual Events

*All courses in this block may be repeated indefinitely for credit within this requirement.

Computing -Applied Computer Science

Any FIVE computer science courses.

However, no more than one course from the following list may be counted in the five courses: Computer Science 134; 170; 225; (171, 172, 173 collectively count as one course).

Computing -Professional Computer Science

Required courses:

Computer Science	261	(3)	Computer Science I
Computer Science	262	(3)	Computer Science II
Computer Science	281	(3)	Architecture and Assembler I
Computer Science	372	(3)	Data Structures and Algorithms

Plus ONE additional Computer Science course.

Creative Writing

Required Courses:

English	230	(3)	Creative Writing
English	240	(1)	Practicum in Publication of Creative Work

(2 registrations required)

Plus SIX semester hours from the following:

English	230	(3)	Creative Writing (in addition to above)
English	610	(3)	Independent Study in Creative Writing*

Plus TWO of the following:

English	281	(3)	Forms of Literature: Drama
English	282	(3)	Forms of Literature: Nonfiction Prose
English	283	(3)	Forms of Literature: Fiction
English	284	(3)	Forms of Literature: Poetry

*With permission of the instructor and the Humanities Division chair, only if English 230 cannot be scheduled.

Digital Arts

Required Courses:

Art	100	(3)	Art Fundamentals
Art	135	(3)	Photo 1 - Introduction to Digital Photography
Art	150	(3)	Introduction to the Digital Arts
Art/Computer Science	250	(3)	Media Computation

Art/Computer Science	255	(3)	WebMastering
Art/Computer Science	381	(3)	Computer Animation

Education

Required courses:

Education	200	(2)	Foundations of American Education
Education	270	(3)	Development in Early Childhood Through Adolescence, or
Psychology	220	(3)	Human Development
Education	290	(3)	Psychological Foundations in Early Childhood Through Adolescence
Special Education	200	(2)	Areas of Exceptionality in Special Education

Plus FIVE semester hours in education or related areas, as approved by Department of Education Chairperson.

Environmental Science

Required courses:

Environmental Sci	210	(4)	Environmental Science I. Principles of Environmental Science
Environmental Sci	211	(4)	Environmental Science II. Minerals, Energy, & the Environment
Environmental Sci	550	(4)	Seminar in Global Environmental Resources
Natural Science	181	(1)	Physical Science: Geology
Natural Science	182	(1)	Physical Science: Meteorology
Natural Science	185	(4)	General Science, Science, and Society

Family Studies

Required courses:

Family Studies	200	(3)	The Helping Relationship
Family Studies	300	(3)	Introduction to Play Therapy
Sociology	210	(3)	The Family

Plus TWO courses chosen from the following:

Psychology	220	(3)	Human Development
Psychology	430	(3)	Counseling Theories and Skills
Sociology	240	(3)	Social Problems
Sociology	310	(3)	Social Gerontology

Healthcare Administration

Required courses:

Business	140	(3)	Introduction to Accounting I
Business	170	(3)	Healthcare Administration
Business	175	(3)	Health Insurance
Health Science	100	(2)	Healthcare Terminology

Plus at least TWO courses chosen from the following:

Business	120	(3)	Introduction to Marketing
Business	184	(3)	Computers in Business
Business	235	(3)	Human Resource Management
Business	250	(3)	Business Ethics
Business	251	(3)	Business Statistics
Business	281	(3)	Business Law I
Economics	201	(3)	Macro-Economics,

or

Economics	211	(3)	Micro-Economics
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ONLY ONE Economics course can be applied toward the minor.

History

Required course:

History	550	(3)	Seminar in History
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Plus TWO courses chosen from the following:

History	150	(3)	Civilization I
History	160	(3)	Civilization II
History	200	(3)	History of United States to 1877
History	210	(3)	History of United States Since 1877

History	220	(3)	The Western Tradition
Plus TWO courses chosen from the following:			
History	320	(3)	Europe in the Middle Ages
History	330	(3)	Renaissance and Reformation
History	340	(3)	Europe in 17th and 18th Centuries
History	360	(3)	Christian Church Through the Ages
History	390	(2)	Special Topics in History
History	400	(3)	United States in the 20th Century
History	410	(3)	United States Diplomatic History
History	420	(3)	Europe in 19th and 20th Centuries

Human Resource Management

Required Courses:

Business	140	(3)	Introduction to Accounting I
Business	160	(3)	Introduction to Management
Business	235	(3)	Human Resource Management

Plus ONE of the following courses:

Psychology	400	(3)	Social Psychology
Communication	150	(3)	Interpersonal Communication

Plus TWO of the following courses:

Business	175	(3)	Risk Management and Insurance
Business	305	(3)	Training and Development
Business	325	(3)	Employment Law and Labor Relations
Business	335	(3)	Recruitment, Selection and Evaluation

International Studies (off campus)

Required courses:

International Studies	160	(4)	Contemporary European Culture
International Studies	390	(4)	Seminar in European Studies

Plus ONE course chosen from the following:

History	220	(3)	The Western Tradition
History	330	(3)	Renaissance and Reformation
History	340	(3)	Europe in the 17th and 18th Century
History	360	(3)	The Christian Church Through the Ages
History	420	(3)	Europe in the 19th and 20th Century
Political Science	320	(3)	Comparative Governments
Political Science	330	(3)	International Relations and World Politics

International Studies (on-campus)

Required Course:

History	160	(3)	Civilization II
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Plus FIVE of the following:

Art	200	(3)	History of Art I
Art	210	(3)	History of Art II
English	360	(3)	World Literature
English	365	(3)	Nineteenth and Twentieth Century World Masterpieces
French	220	(3)	Intermediate French I
History	150	(3)	Civilization I
History	220	(3)	The Western Tradition
Music	400	(3)	History and Literature of Music I
Music	410	(3)	History and Literature of Music II
Religion/History	360	(3)	The Christian Church Through the Ages

Journalism

Required Course:

Journalism	160	(1)	Journalism Practicum
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(2 registrations required)

Journalism	200	(3)	Introduction to Journalism
Journalism	210	(3)	News Editing and Production
English	250	(3)	Advanced Grammar

Plus NINE semester hours from the following:

Communication	185	(3)	Principles and Practices of Public Relations
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Communication	251	(3)	Advertising
English	520	(3)	Internship in News Editing and Production *
Journalism	160	(1)	Journalism Practicum (in addition to above) **

* May be repeated once for credit.

**May be repeated for credit. Up to six of the nine semester hours in this section may be fulfilled with Journalism 160.

Literature

Three of the following:

English	290	(3)	Shakespeare
English	360	(3)	World Literature
English	365	(3)	Nineteenth and Twentieth Century World Masterpieces
English	375	(3)	British Literature since 1785
English	410	(3)	Development of the English Language

Plus TWO of the following:

Religion	280	(3)	Religions of the World
Religion	325	(3)	Christian Theology
English	220	(3)	Appalachian Literature
English	225	(3)	Ethnic Literature in the United States
English	350	(3)	Early American Literature
English	355	(3)	Modern American Literature

Marketing

Required courses:

Business	120	(3)	Introduction to Marketing
Business	281	(3)	Business in Law I
Business	350	(3)	Consumer Behavior
Business	435	(3)	Marketing Management
Economics	201	(3)	Macro-Economics
Communication	251	(3)	Advertising

Mathematics

Required courses:

Mathematics	166	(3)	Discrete Mathematics I
Mathematics	167	(3)	Discrete Mathematics II
Mathematics	231	(4)	Calculus I
Mathematics	232	(4)	Calculus II

Plus ONE of the following:

Mathematics	312	(3)	Algebraic Structures
Mathematics	315	(3)	Linear Algebra
Mathematics	333	(4)	Advanced Calculus
Mathematics	441	(3)	Differential Equations

Music - Applied

Required courses:

Applied Music	151	(1)	Piano Class I
Music	111	(2)	Musicianship I
Music	113	(1)	Theory Rudiments
Music	150	(3)	Theory I
Music	190	(2)	Introduction to Music

THREE to FOUR semester hours chosen from the following lessons:

(Some Applied Lessons are not offered every semester. Students should inquire about their availability before registering.)

Applied Music	181	(1 or 2)	Brass
Applied Music	182	(1 or 2)	Organ
Applied Music	183	(1 or 2)	Percussion
Applied Music	184	(1 or 2)	Piano
Applied Music	185	(1 or 2)	Voice
Applied Music	186	(1 or 2)	Woodwind

Applied Music	187	(1 or 2)	Guitar
Applied Music	188	(1 or 2)	Strings

*private lessons must be on only one instrument or voice

THREE to FOUR semester hours chosen from the following Ensembles (Ensemble participation is authorized by the ensemble director by audition.)

Applied Music	221	(1)	Brass Choir
Applied Music	222	(1)	Jazz Ensemble
Applied Music	223	(1)	Woodwind Chamber Ensemble
Applied Music	230	(1)	Concert Band
Applied Music	240	(1)	Concert Choir
Applied Music	250	(1)	"The West Virginians"
Applied Music	251	(1)	Opera Workshop

Political Science

Required courses:

Political Science	200	(3)	American National Government
Political Science	310	(3)	Constitutional Law
Political Science	410	(3)	United States Diplomatic History
Political Science	430	(3)	Public Policy
Political Science	440	(3)	Political Ideologies

Plus at least ONE course chosen from the following:

Political Science	320	(3)	Comparative Government
Political Science	330	(3)	International Relations and World
Political Science	550	(3)	Seminar in Political Science

Plus THREE courses chosen from the following:

Political Science	190	(3)	Introduction to Political Science
Political Science	210	(3)	State and Local Government
Political Science	300	(3)	American Political Parties and Electoral

Psychology

Required courses:

Psychology	190	(3)	General Psychology
Psychology	220	(3)	Human Development

or

Psychology	230	(3)	Human Adjustment
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PLUS at least 3 courses chosen from the following:

Psychology	301	(3)	Principles of Learning
Psychology	303	(3)	Physiological Psychology
Psychology	310	(3)	History and Systems of Psychology
Psychology	400	(3)	Social Psychology
Psychology	420	(3)	Abnormal Psychology
Psychology	430	(3)	Counseling Theories and Issues

Recreation Leadership

Required courses:

Recreation	200	(3)	Philosophy & Orientation in Physical Education & Recreation
Recreation	210	(3)	Theory and Practice of Recreational
Recreation	230	(3)	Leadership Dynamics of Recreational Groups

Plus SIX semester hours chosen from the following courses:

Art	100	(3)	Art Fundamentals
Music	100	(1)	Music Rudiments and Skills
Physical Education	267	(1)	Recreational Sports
Physical Education	281	(1)	Square and Folk Dancing
Recreation	300	(3)	Nature Recreation, Camping, Campercraft
Recreation	325	(3)	Adaptive Physical Education/Recreation
Recreation	350	(1)	Assisting in Recreation
Recreation	400	(3)	Recreation Program Organization and Planning

Religion and Philosophy

Required Courses:

Philosophy	190	(3)	Introduction to Philosophy
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Religion	290	(3)	Introduction to the Old Testament
Religion	295	(3)	Introduction to the New Testament

Plus ONE of the following:

Philosophy	290	(3)	Applied Logic
Philosophy	310	(3)	Ethics
Philosophy/Religion	320	(3)	Philosophy of Religion

Plus ONE of the following:

Plus:

Any other course in Religion or Philosophy (3)

Sociology

Required course:

Sociology	190	(3)	Introduction to Sociology
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Plus FOUR courses chosen from the following:

Sociology	210	(3)	The Family
Sociology	230	(3)	Appalachian Studies
Sociology	240	(3)	Social Problems
Sociology	310	(3)	Social Gerontology
Sociology	320	(3)	Minorities
Sociology	350	(3)	Criminology

Strength and Conditioning

Required courses:

Biology	270	(4)	Anatomy and Physiology I
Biology	271	(4)	Anatomy and Physiology II
Health Science	261	(1)	Strength Training and Conditioning
Health Science	373	(1)	Cardiopulmonary Resuscitation
Physical Education	305	(3)	Kinesiology / Biomechanics
Physical Education	315	(3)	Physiology of Exercise
Physical Education	335	(2)	Safety Education/First Aid

Any student could be eligible to complete the course work to prepare him/her to become a Personal Fitness Instructor or a Certified Strength Conditioning Specialist. By successfully completing the course work, the student will be eligible to "sit" for either the Personal Fitness Instructor's examination or the Certified Strength and Conditioning Specialist's examination.

Visual Arts

Required Courses:

Art	100	(3)	Art Fundamentals
Art	200	(3)	Art History I
Art	210	(3)	Art History II

Plus THREE Studio Courses in Sequence:

Art	115	(3)	Drawing I
Art	215	(3)	Drawing II
Art	315	(3)	Drawing III
or			
Art	120	(3)	Painting I
Art	220	(3)	Painting II
Art	320	(3)	Painting III
or			
Art	118	(3)	Printmaking I: Relief and Screen
Art	218	(3)	Printmaking II
Art	318	(3)	Printmaking III
or			
Art	135	(3)	Photography I: Intro to Digital Photography
Art	235	(3)	Photography II: Intro to Film and Darkroom
Art	335	(3)	Photography III: Lighting and Retouching
or			
Art	150	(3)	Intro to Digital Arts
Art	250	(3)	Media Computation
Art	381	(3)	Computer Animation

CERTIFICATE PROGRAMS

Certificate in Computer Science Fundamentals

Required:

Computer Science	261	(3)	Computer Science I
Computer Science	262	(3)	Computer Science II
Computer Science	281	(3)	Architecture & Assembler I
Computer Science	372	(3)	Data Structures

PLUS at least 12 hours from:

Computer Science	271	(3)	Computer Language
Computer Science	282	(3)	Architecture & Assembler II
Computer Science	311	(3)	Theory I
Computer Science	312	(3)	Theory II
Computer Science	343	(3)	Data Base Management Systems
Computer Science	350	(3)	Communications
Computer Science	351	(3)	Simulation
Computer Science	360	(3)	Software Engineering
Computer Science	362	(3)	Systems Programming
Computer Science	380	(3)	Computer Graphics
Computer Science	381	(3)	Computer Animation
Computer Science	390	(3)	Special Topic
Computer Science	451	(3)	Networking
Computer Science	500	(3)	Internship
Computer Science	560	(3)	Guided Study
Computer Science	600	(3)	Independent Study/Research

LIBERAL STUDIES PROGRAM: Not required.

Certificate in Business Fundamentals (Inactive)

(Not Currently Offered)

Required Courses:

Business	120	(3)	Introduction to Marketing
Business	140	(3)	Introduction to Accounting
Business	184	(3)	Computers in Business
Business	235	(3)	Human Resource Management
Business	281	(3)	Business Law I

CERTIFICATE IN COMPUTING: Information Systems (Inactive)

(Not Currently Offered)

Computer Science	271	(3)	Programming: Delphi
Computer Science	271	(3)	Programming: Java (Web)
Computer Science	271	(3)	Programming: C++
Computer Science	343	(3)	Database Management Systems
Computer Science	390	(3)	ST: Systems Analysis

CERTIFICATE IN COMPUTING: Programming (Inactive)

(Not Currently Offered)

Computer Science	271	(3)	Programming: Ada
Computer Science	271	(3)	Programming: Delphi
Computer Science	271	(3)	Programming: Java (Web)
Computer Science	271	(3)	Programming: C++
Computer Science	372	(3)	Data Structures

CERTIFICATE IN COMPUTING: Software Development (Inactive)

(Not Currently Offered)

Computer Science	271	(3)	Programming: Ada
Computer Science	343	(3)	Database Management Systems
Computer Science	360	(3)	Software Engineering
Computer Science	372	(3)	Data Structures
Computer Science	390	(3)	ST: Systems Analysis

HONORS PROGRAM

The Alderson-Broaddus College Honors Program was developed to provide intellectual challenge and stimulation for academically superior students who are strongly motivated toward academic success; to provide impetus for independent scholarship, research, and creative endeavors by academically gifted students; and to provide a public forum for the presentation of scholarly and creative work by students and faculty.

Expectations and Benefits for Honors Students

Students in the Honors Program are expected to:

- ...complete at least three Honors seminars;
- ...design and carry out an independent research project in the junior or senior year.

Among the benefits students will receive are

- ...stimulating classes and scholarly experiences with other academically superior students;
- ...recognition as Honors Program graduates on their diplomas and transcripts;
- ...inscription of their names as Honors Program graduates on a plaque displayed in a prominent place on campus;
- ...recognition at a yearly banquet for Honors students.

Admission Criteria

Incoming Freshmen

High school students identified as potential Honors students on the basis of markedly superior performance in high school and on national college entrance examinations will be invited to apply to the Honors Program.

Minimum Criteria:

1. ACT composite score of 26 or SAT combined score of 1140.
2. Placement in the top 10% of graduating class or a high school GPA of 3.5.

Transfer Students

Any qualified transfer student who has completed 39 or fewer credit hours OR who will be a full-time student at Alderson-Broaddus College for at least six semesters may apply for admission to the Honors Program

Minimum Criteria:

1. ACT composite score of 26 or SAT combined score of 1140.
2. 3.40 cumulative GPA from previous institution.

Current Students

Any qualified student currently enrolled at Alderson-Broaddus College who has completed 39 or fewer hours may apply for admission to the Honors Program.

Minimum Criterion:

1. 3.40 cumulative GPA at Alderson-Broaddus.

Honors Program Course of Study

The Honors Program is a four-year program meant to involve students from all academic and professional majors. In order to be designated an Honors Program graduate, a student in the Honors Program must complete three 3-hour interdisciplinary Honors seminars as well as design and carry out an independent research project during the junior or senior year.

Since Honors courses may be used to meet the requirements of the liberal studies program, students in the Honors Programs are not required to take more hours for graduation than other students. In addition, the independent research project may in some cases be taken as a 3-hour independent study course in fulfillment of a requirement in a student's major.

Honors 200 and 400

Both Honors 200 and Honors 400 are taught in a seminar format that encourages students' regular participation in an exchange of ideas and diverse viewpoints. Each seminar focuses on a different theme, exploring that theme from the perspectives of the several academic disciplines. All Honors courses involve intensive reading and discussion, with presentations by guest lecturers when appropriate. Students learn the methods of scholarly research and writing through semester-long research projects that give them time to explore topics in depth. They also make oral class presentations of their research.

Honors 200 is open to freshman and sophomore Honors students. Honors 400, a more advanced seminar that places the major burden for scholarly presentations on the students, is open to junior and senior Honors students. Freshmen and sophomores may take Honors 400 with permission of the instructor and the Honors Program Director. Both courses carry 3 semester hours of credit, and both may be repeated once for credit.

Independent Research Project

Each Honors student will design and carry out a research project during his or her junior or senior year. The project will culminate in an Honors senior project that will be evaluated by the Honors Program Director.

Students frequently are able to use as their Honors Program senior project a research paper already completed, or currently being completed, to fulfill requirements in their majors. Students must consult with the Honors Program Director in advance as to the acceptability of their project in fulfilling Honors Program requirements.

After his or her senior project has been approved by the Honors Program Director, the student will present the results of the project in a public forum on campus, open to the entire campus community of faculty, staff and students, as well as the general public. It is the responsibility of the Honors Program Director to provide an on-campus forum and to make all necessary arrangements.

In lieu of an Honors research paper, students may wish to substitute other major senior level accomplishments, such as portfolio readings for writing majors, or art gallery exhibits and talks for art majors. It is the responsibility of the students to have these projects approved in advance by the Honors Program Director.

Program Standards

A student must maintain at least a 3.4 cumulative GPA in order to remain in the Honors Program.

A student whose cumulative GPA falls below 3.4 but not below 3.0 will be placed on Honors probation for one semester but will be permitted to take an Honors seminar during the probationary period.

At the end of the probationary period, a student whose cumulative GPA has risen to 3.4 or above will be returned to normal status in the program.

A student whose cumulative GPA is still below 3.4 but not below 3.0 at the end of the probationary semester will continue on probation for an additional semester but will not be permitted to enroll in an Honors seminar. If at the end of a second probationary semester a student's cumulative GPA is still below 3.4, the student will be dismissed from the program.

A student whose cumulative GPA at any time falls below 3.0 will be dismissed from the program without a probationary period.

Regardless of cumulative GPA, a student whose semester GPA for any semester falls below 2.6 will be placed on Honors probation for one semester and will not be permitted to take an Honors seminar during the probationary period. If for the probationary semester the student's semester GPA is again below 2.6, he or she will be dismissed from the program regardless of cumulative GPA.

A student may voluntarily withdraw from the Honors Program at any time upon notifying the Honors Program Director.

For further information about the Honors Program contact:

Dr. Kenneth H. Yount
Director of the Honors Program
Box 2095
Alderson-Broadus College
Philippi, WV 26416
(304) 457-6330
yountkh@ab.edu

Study Away Programs

International Studies

Alderson-Broaddus College offers academic minors in international studies and offers international studies opportunities for students to study in, and experience, other countries.

The semester of study in Europe is the hallmark of the Alderson-Broaddus College international studies programs and offers the students the best opportunity for international study, travel, and experiencing international culture. The Austria Program provides the students with a semester of study (12 semester hours) at the Alderson-Broaddus College Campus in Salzburg, Austria, at Haus Wartenberg, and travel opportunities throughout Europe. A-B is the lead college in a consortium of five colleges that also includes Eastern University, Franklin College, Judson College, and Keuka College. The courses include subjects taught by faculty chosen from the consortium colleges and are designed to help meet the students' liberal studies requirements and or majors or minors. A German language course taught by an Austrian German language professor is also required. Each student may also arrange for independent studies as long as the total hours for the semester do not exceed 18. Music lessons may be arranged with professors from the Mozarteum at an addition fee. Room and board and tuition are the same as those for on campus students. A program fee to cover roundtrip airfare, ground transportation, and a Eurail train pass is in addition to these costs.

For more information on the Austria Program contact Dr. James Daddysman, program director for the Semester in Europe program, Ph. 304.457.6270.

The Mission Team, an outgrowth of the Christian Studies program, provides opportunities to engage students in cross-cultural mission. At present, this work involves partnership with PROVADENIC (Managua, Nicaragua), UrbanPromise (Camden, NJ), and the ABMen of West Virginia Disaster Relief Team. For most of the participating students, these mission trips become life-changing experiences

COURSES OF INSTRUCTION

Courses may be offered in an online format after achieving approval of the Academic Program Committee. The College expresses its academic credits in semester hours.

The numbers may be interpreted as follows:

100-299	Courses generally of freshman-sophomore level.
300-499	Courses of junior-senior level.
390	Special topics, as announced, junior and senior level. Selected subjects, varying from offering to offering, 2 or 3 semester hours
395	Special topics which have been approved as "issues" courses for use in elective minors or for elective credit. 2 semester hours
500	Student teaching, supervised field experiences, and internships.
550	Departmental seminars for seniors.
560	Guided Studies, on or off campus. With proper permissions, a guided study may be completed by a student whose major or teaching specialization is related to the subject area in which the course is registered. (Grading: Honor, Satisfactory, Unsatisfactory.) 1-4 semester hours
570	Guided Studies. (Grading: Letter.) 1-4 semester hours
600	Independent Studies. The study usually lies within the major subject area in which the student has demonstrated the necessary interest and abilities. The project, which follows a plan designed by the student and approved by the study advisor, is independently completed. Written report required. (Grading: Honor, Satisfactory, Unsatisfactory.) 1-6 semester hour
610	Independent Studies. (Grading: Letter.) 1-6 semester hour

Courses are sometimes offered more than once within an academic year, while other courses are taught only in alternate years. To determine the frequency of course offerings, students should consult the current edition of the *Master Schedule* issued by the Office of the Registrar.

The College reserves the right to withdraw or postpone any courses for which the enrollment is judged to be insufficient.

Art (ART)

100 Art Fundamentals.

A foundation studio course that examines the intellectual, perceptual, and critical processes of visual organization and formalistic analyses of two- and three-dimensional design. Recommended as the first course to be taken in art.

3 semester hours

105 Success in Visual Arts.

Course for first-year students covering concepts and issues that will enhance the student's success in college as a Visual Arts major.

1 semester hour

115 Drawing I.

Fundamental principles of drawing. Exploration of a variety of techniques and media.

Recommended to be taken simultaneously with or the semester following Art 100. May be repeated for credit.

2-3 semester hours

118 Printmaking I: Relief and Screen.

Basic concepts and techniques of relief printing including linocut, woodcut, and/or wood engraving.

Introduction to mono-prints and new processes. Recommended: Art 100, 115 prior to this course.

May be repeated for credit.

2-3 semester hours

120 Painting I.

- Emphasis on processes and techniques of oil painting. Recommended: Art 100, 115 prior to this course. May be repeated for credit.
2-3 semester hours
- 125 Ceramics I.**
Introduction to basic hand-building, wheel throwing techniques, glazing and decorative techniques. May be repeated for credit.
2-3 semester hours
- 135 Photography I: Introduction to Digital Photography.**
Emphasis on contemporary photographic imagery and the processes and techniques of digital still and motion picture photography.
3 semester hours
- 140 Sculpture I: Direct Methods/Molds.**
Introduction to basic processes and theory in sculpture, including modeling and found object sculpture as well as experimentation with new media. Prerequisite: Art 100.
3 semester hours
- 150 Introduction to Digital Arts.**
Emphasis on the processes, techniques, and visual traditions of the digital arts.
3 semester hours
- 190 Art Appreciation.**
Survey of major artists and artistic developments in art from prehistoric to modern. A lecture/discussion course with emphasis on the consideration of concepts and issues through the study of painting, sculpture, and architecture.
2 semester hours
- 200 History of Art I.**
A survey of the visual arts from the prehistoric to the Renaissance.
3 semester hours
- 210 History of Art II.**
A survey of the visual arts from Mannerism to Modern Art. Prerequisite: Art 200.
3 semester hours.
- 211 Film.**
Provides the student with a working knowledge of the key concepts that inform the methods of both film production and film criticism. Includes application of these concepts to critical analysis of films from a wide range of genres, traditions, and cultures, and experience in the art of film making through production by students of short videos which will be shared and critiqued in class.
3 semester hours
- 215 Drawing II.**
Advanced studio drawing class that explores contemporary methods and subjects of drawing including the figure, landscape and references from art history and popular culture. Prerequisite: 3 semester hours of Art 115. Art majors and minors only.
3 semester hours
- 218 Printmaking II.**
Emphasis on independent project development and problem solving. Printing approaches used may include, but are not limited to, silkscreen, relief, intaglio, and digital outputs. Students will propose projects and work with the instructor to refine and complete them. Required number of prints will depend on the nature of the projects. Students will be expected to expand their command of printing processes beyond what they worked with in Art 118. Prerequisite: 3 semester hours of Art 118. Art majors and minors only.
3 semester hours
- 220 Painting II.**
Exploration of the physical and visual mechanics of painting. Investigation of a variety of images, including the figure, landscape and still-life. Prerequisite: 3 semester hours of Art 120. Art majors and minors only.
3 semester hours
- 225 Ceramics II.**
Emphasis on creativity and aesthetic considerations. Practice of glazing and firing processes. Prerequisite: 3 semester hours of Art 125. Art majors and minors only.
3 semester hours
- 235 Photography II: Introduction to Film and Darkroom.**
Emphasis on the processes, techniques, subjects, history, and visual traditions of still film and darkroom photography. Prerequisite: Art 135 or WPI.
3 semester hours
- 245 Theory and Methods of Art Education.**

A course designed to combine the philosophies, concepts and methodology for teaching art at the elementary and middle school level. A necessary foundation for the regular classroom teacher as well as art instructor in order to provide a meaningful art program relative to the developmental level of the child. Recommended: Art 100 prior to this course.

2 semester hours

250 Media Computation.

Emphasis on 2-D digital arts, including digital drawing, painting, printmaking, and graphic design.

Prerequisite: Art 150 or WPI.

3 semester hours

255 Web Mastering.

Emphasis on developing a personal visual style of seeing, production, and presentation of digital works.

3 semester hours

315 Drawing III.

Drawing as an expressive medium. Problems to stimulate independent visual thinking and problem solving. Prerequisite: 3 semester hours each of Art 115, 215. Art majors only.

3 semester hours

318 Printmaking III.

Emphasis on independent student work, with a significant number of prints expected. Exact requirements will be determined in consultation with the instructor and based on project proposals. Students in this course will research and implement at least one printmaking method that they have not tried before. There is no limitation on printing method, although some methods may require students to build or acquire special equipment. Students must demonstrate the ability to deploy a cohesive visual vocabulary in the service of stated aims. Prerequisite: 3 semester hours each of Art 118, 218. Art majors only.

3 semester hours

320 Painting III.

Focus on individual and conceptual concerns through a variety of painting experiences.

Prerequisite: 3 semester hours each of Art 120, 220. Art majors only.

3 semester hours

325 Ceramics III.

Development of individual style and a significant body of work in the course of the semester.

Students will begin to research and test clay and glaze recipes. Prerequisite: 3 semester hours each of Art 125, 225. Art majors only.

3 semester hours

335 Photography III: Lighting and Retouching.

Emphasis on developing a personal visual style of seeing, production, and presentation of photographic works. Prerequisite: Art 135, 235. Art majors only.

3 semester hours

381 Computer Animation.

Emphasis on 3-D digital arts, including modeling, scene description, and rendering of still and motion imagery.

3 semester hours

390 Special Topics in Art.

Selected and varying subjects, presenting the opportunity for detailed examination of a topic or a specialized studio technique. Prerequisite: successful completion of all courses in the particular area of study through the 300 level.

3 semester hours

415 Drawing IV.

Drawing as an experimental medium for extended exploration of personal iconography and image-making approaches. Problems to be formulated in part by the student and requiring independent thinking and evaluation of solutions. Prerequisite: 3 semester hours each of Art 115, 215, 315. Art majors only.

3 semester hours

418 Printmaking IV.

Intended for students capable of independent work in prints. The instructor will provide ongoing critical feedback and serve as resource for solving problems. Project proposals will be submitted, and a target number of prints set by the instructor and the student together. A large number of prints will be expected to be made. Innovative use of printing methods previously mastered is the focus. Students will demonstrate a highly developed personal visual vocabulary and ability to convey intentions through their work with confidence. Prerequisite: 3 semester hours each of Art 118, 218, 318. Art majors only.

3 semester hours

420 Painting IV.

Advanced level painting course in preparation for senior project. Emphasis on the development of a personal visual language and style. Independent studio work with scheduled critiques. May be repeated for credit. Prerequisite: 3 semester hours each of Art 120, 220, 320. Art majors only.
3-6 semester hours

425 Ceramics IV.

Ceramics as a range of media for extended exploration of personal style and approaches to the making, decorating, and surfacing of objects. Work can be functional or nonfunctional, sculptural or practical. Students are responsible for formulating problems to be solved and for researching and implementing clay and glaze recipes as needed. Prerequisite: 3 semester hours each of Art 125, 225, 325. Art majors only.
3 semester hours

435 Photography IV: Alternative Processes.

Emphasis on developing a personal visual style of seeing, production, and presentation of motion picture photographic works. Prerequisite: Art 135, 235, and 335. Art majors only.
3 semester hours

460 Solo Exhibit. Senior studio project that culminates in a senior exhibition. A body of work with a contemporary conceptual focus is created. Prerequisite: completion of 30 semester hours of studio art courses, senior status. Art majors only.
3 semester hours

510 Professional Practices Seminar. Gallery experience: solo exhibition of work from the senior project. Includes publicity, writing an artist's statement, striking the exhibit, giving a gallery talk or class lecture. Also required: preparation of research paper for senior critique, preparation of portfolio for graduate school or job interview. Prerequisite: completion of 30 semester hours of studio art courses, senior status. Art majors only.
1 semester hour

INDIVIDUAL STUDIES that may be either Guided (identified by the course number 560 or 570) or Independent (numbered 600 or 650) may be scheduled with special permission.

Astronomy (ASTR)**190 Introduction to Astronomy.**

The solar system in particular, including the sun, planets, comets, and meteors, in addition to the universe, its components and processes in a larger context. Brief history of manned space vehicles. Problems of fundamental celestial mechanics. A laboratory is included.
4 semester hours

Athletic Training (ATHL)**101 Freshman Experience in Athletic Training.**

A course for First-Year Students in the Athletic Training major designed to introduce students to issues, activities, and skills that will enhance their chances for success in the college and the Athletic Training major. The course will focus on the issue of advancing the profession of athletic training and the reason that issue is important.
2 semester hours

150 Athletic Taping and Bracing.

A course that studies the different aspects of sports medicine with a "hands on" approach. Topics include taping techniques, modalities, protective equipment fitting, orthotic fabrication, as well as other information about record keeping in the athletic training room.
2 semester hours

211 Practicum I.

A clinical course that allows the athletic training student an opportunity to use in practice information gleaned in the didactic setting. Students will primarily be involved with evaluation skills and special tests to determine the extent of injury or disease to the lower extremity of the active individual. The class will cover all proficiencies from orthopedic evaluation of the lower extremity and personal health.
1 semester hour

250 Orthopedic Evaluation of the Lower Extremity.

A course that studies the advanced orthopedic evaluation of the foot, ankle, knee, thigh, hip and lower back. Areas of emphasis include anatomy, evaluation skills (history taking, observation, palpation, muscle testing, etc.) and special tests to determine the extent of injury or disease to the lower extremity of the active individual. Course involves both traditional classroom lectures and clinical skills practice.

3 semester hours

260 Orthopedic Evaluation of the Upper Extremity.

A continuation of Athletic Training 250, this course studies the advanced orthopedic evaluation of the hand, wrist, elbow, shoulder, head, neck and thorax. Areas of emphasis include anatomy, evaluation skills (history taking, observation, palpation, muscle testing, etc.) and special tests to determine the extent of injury or disease to the upper extremity of the active individual. Course involves both traditional classroom lectures and clinical skills practice.

3 semester hours

270 Athletic Injury Control and Management.

Theoretical and practical methods of preventing and treating athletic injuries.

3 semester hours

312 Practicum II.

A clinical course that allows the athletic training student an opportunity to use in practice information gleaned in the didactic setting. Students will primarily be involved with evaluation skills and special tests to determine the extent of injury or disease to the upper extremity of the active individual. The class will cover all proficiencies from orthopedic evaluation of the upper extremity and athletic injury control and management.

3 semester hour

313 Practicum III.

A clinical course that allows the athletic training student an opportunity to use in practice information gleaned in the didactic setting. Students will primarily be involved with the use of therapeutic modalities, which can be employed in the treatment of both over-use and trauma-related exercise injuries. The class will cover all proficiencies from sports injuries and therapeutic modalities and physiology of exercise.

3 semester hour

340 Sports Injuries and Therapeutic Modalities.

Designed to provide a rational and effective approach to the treatment of specific injuries or diseases of the active individual. The class will cover all exercise-induced injuries. The main focus is on the therapeutic modalities (massage, ultrasound, electrical stimulation, etc.) that can be employed in the treatment of both over-use and trauma related exercise injuries. Course involves both traditional classroom lectures and clinical skills practice. Prerequisite: Biology 271.

3 semester hours

370 Rehabilitation of Athletic Injuries.

A course that studies the theory, technique, skills and rational approach to rehabilitation of the injured active individual. Areas of study include PNF techniques, joint mobilization, modality use, specific methods, and programs for specific injuries and criteria for safe and effective return to activity. Course involves both traditional classroom lectures and clinical skills practice.

3 semester hours

400 Sports Medicine.

This course acquaints the student with the many and varied aspects of medical science that are related to exercise aggravated or induced pathology. The physiologic adaptations to the physical and mental stress of exercise form the basis of the lectures. Included is the use of physical activity in both the treatment and prevention of certain diseases. Also included are the basic principles of cardiac diseases. Course involves both traditional classroom lectures and clinical skills practice.

3 semester hours

401 Research/Athletic Training.

Designed to provide students with exposure to the research process, including methodology, verification, and reporting. Each student will, under faculty guidance and supervision, design and carry out a research project in the area of athletic injury, prevention, evaluation, treatment and/or rehabilitation. The process of research method design, approval, administration and result-reporting is expected to take eight months. (This is the maximum time allowed for completion of the project.)

1 semester hour

405 Administration in Athletic Training.

A course that examines the various issues, policies and procedures involved with administration in athletic training. Emphasis is on administrative concepts, facility design, budgeting and equipment purchasing, personnel management, program management, record keeping, insurance, legal issues, ethics and pre-participation physical exams.

3 semester hours

414 Practicum IV.

A clinical course that allows the athletic training student an opportunity to use in practice information gleaned in the didactic setting. Students will primarily be involved with the technique, skills and rationale to rehabilitate the active individual. The class will cover all proficiencies from rehabilitation of athletic injuries.

3 semester hour

415 Practicum V.

A clinical course that allows the athletic training student an opportunity to use in practice information gleaned in the didactic setting. Students will primarily be involved with the aspects of medical science that are related to exercise-aggravated or induced pathology to determine the extent of general medical proficiencies from sports medicine, administration in athletic training and research in athletic training.

3 semester hour

Biology (BIOL)

110 Introduction to Biology.

A non-majors level course designed to introduce students to the biological world and the fundamentals of scientific inquiry. Topics covered include the evolution of life, a brief survey of the six kingdoms of life with ecological interactions, and a survey of selected human body systems. Topics in lecture are emphasized through corresponding laboratory exercises. Lecture 3 hours, Laboratory 2 hours per week. Cannot be used to satisfy a requirement in the Division of Natural Science.

4 semester hours

111 Human Biology.

A one-semester study of the structure and function of the human organ systems. Basic anatomy and physiology of each system is discussed.

3 semester hours

210 General Biology I.

An introductory level study of cellular and molecular biology. Basic concepts of cellular structure, genetics, reproduction, locomotion, protein synthesis, metabolism, chemistry and physiology are presented. Cellular differentiation and types of cellular organisms as well as an introduction to acellular entities are included. The laboratory component emphasizes morphology of cells, current methods used to study and analyze cells and examples of common differentiation cell types. Common types of one-celled organisms are included. Lecture 3 hours, laboratory 3 hours per week.

4 semester hours

211 General Biology II.

An introductory level study of organism biology. A taxonomic approach is used to develop a sequential presentation of multicellular animals. Form and function is used as the format to present organs, organ systems, structure, metabolism, physiology and other similarities and differences among animal groups. The laboratory component permits continued emphasis in this area using selected animals as model systems, field observations and experimentation to highlight basic principles. Lecture 3 hours, laboratory 3 hours per week. Prerequisite: Grade of C or better in Biology 210 or WPI.

4 semester hours

212 Botany.

An introductory level study of the biological concepts of plants as organisms. A taxonomic approach is used to develop appreciation of plant diversity, morphology and structure. The laboratory component uses selected examples to highlight diversity. Field observations and experimentation are used to highlight basic principles. Lecture 3 hours, laboratory 3 hours per week. Prerequisite: Grade of C or better in Biology 210 or WPI.

4 semester hours

240 Microbiology.

Study of microscopic life forms that are directly related to human health and welfare. Bacteria, viruses and the eukaryotic microbial forms are emphasized. Comparisons of structure, morphology, reproduction and taxonomy are used to highlight the diversity of these forms. Emphasis is given to selected forms associated with human disease and host immune responses. Lecture 3 hours, laboratory 3 hours per week. Prerequisite: Grade of C or better in Biology 210 or WPI.

4 semester hours

245 Evolution.

A study of the progression of life with emphasis on the mechanisms of evolution. An analysis of the distribution patterns of plants and animals. Consideration of the theory and fossil records.

2 semester hours

270 Anatomy and Physiology I.

A study of the structure and normal functions of the human body. Basic cell biology and chemistry is reviewed. Basic histology is then covered followed by study of body systems including the muscular, skeletal, and nervous and senses. Lecture 3 hours, laboratory 2 hours per week.

4 semester hours

271 Anatomy and Physiology II.

Continuation of Biology 270 with study of the cardiovascular, lymphatic, respiratory, urinary, digestive, endocrine and reproductive systems. Lecture 3 hours, laboratory 2 hours per week. Prerequisite: Grade of C or better in Biology 270 or WPI.

4 semester hours

341 Genetics.

A course to present the mechanisms of inheritance and the concept of the gene. Both traditional Mendelian as well as molecular concepts included. Genome organization, packaging, regulation and function are presented in depth. Prerequisite: Grade of C or better in Biology 211 or 271, or WPI. Lecture 3 hours, laboratory 3 hours per week.

4 semester hours

350 General Physiology.

A study of animal physiology with focus on individual capabilities of organ systems. The concept of homeostasis and the significance of nervous, excretory and endocrine regulation. Prerequisite: Grade of C or better in Biology 210, 211 or WPI. Lecture 3 hours, laboratory 3 hours per week.

4 semester hours

354 West Virginia Flora.

Introduction to the taxonomy and distribution of West Virginia plants. Emphasis is placed on common wildflower and tree species. Basic form and function of vascular plants is also discussed. Techniques of field identification, collection, and preservation are covered in the laboratory component. There will be 2 hours of lecture per week and 4 hours of laboratory per week, as well as field trips. Prerequisite: Grade of C or better in Biology 210, 211, or Environmental Science 210, 211. 4 semester hours

355 Mammalogy.

A class designed to introduce students to the systematics, behavior, and major taxa, physiology and ecology of mammals. Emphasis will be on, but not restricted to North American mammals. Laboratories will be field-based, focusing on identifications, collection and preservation of specimens. Prerequisites: Grade of C or better in Biology 210, 211 and/or Environmental Science 210, 211. Lecture 3 hours, laboratory 3 hours per week, as well as field trips.

4 semester hours

360 Ecology.

A study of biology communities and ecosystems. Concepts such as natural selection, speciation, community succession and biomes are studied. Biogeochemical cycles and population regulation are also included. The laboratory component is used for field analysis and development of themes presented in lecture. Prerequisite: Grade of C or better in Biology 210 and 211 or Environmental Science 210 and 211 recommended. Lecture 3 hours, laboratory 3 hours per week, as well as field trips.

4 semester hours

365 Experimental Design and Data Analysis.

This course introduces the concepts of experimentation. It also covers the interpretation of common statistical procedures not included in Statistics (Mathematics 251). Laboratory will include use of various computer statistical programs. Prerequisites: Grade of C or better in Biology 210, 211 or Environmental Science 210, 211, and Mathematics 251.

4 semester hours

370 Cell Biology.

A molecular approach to the study of the cell as a fundamental unit of life. Structural and functional characteristics of cellular components, regulation, signal transduction and metabolism are covered. Special emphasis on current methods of study are introduced in lecture and performed in the laboratory component. Prerequisite: Grade of C or better in Biology 210 and Chemistry 310 (can be taken concurrently). Lecture 3 hours, laboratory 2 hours per week.

4 semester hours

375 Conservation Biology.

An introduction to the tools, policies and dilemmas associated with conservation of natural resources and the environment on a local and global scale. Prerequisites: Grade of C or better in Environmental Science 210, 211 or Biology 210, 211.

3 semester hours

380 Aquatic Entomology.

This class will introduce students into the taxonomy, life-history, and ecology of aquatic insects. A great deal of research and regulatory protocols utilizing aquatic insects. Aquatic insect identification and basic ecological experimentation will be covered in laboratory. Prerequisites: Grade of C or better in Biology 210, 211 or Environmental Science 210, 211. Lecture 3 hours, laboratory 3 hours per week, as well as field trips.

4 semester hours

382 Entomology.

An introduction to the study of the morphology and life history of insects and other important arthropods. Emphasis is placed on common local forms. Techniques of field identification, collection and preservation are covered in the laboratory component. There will be three hours of lecture each week, 3 hours of laboratory work each week, as well as field trips. Prerequisite: Grade of C or better in Biology 210, 211 or Environmental Science 210, 211.

4 semester hours

390 Special Topics in Biology.

A course to permit the offering of courses that are not regular offerings in biology. Offerings are determined to address the expertise of faculty or to enrich programs of study when enrollment may not permit scheduled regular offerings. The title and semester hour credit may vary. Examples of possible topics include mycology, comparative anatomy, and population biology. Specific topics are advertised at scheduled registration periods. Prerequisites vary depending on the course offered.

3-4 semester hours

410 Limnology.

This course surveys the various types of aquatic ecosystems, with an introduction to relevant organisms. Both flowing and static waters are included. Emphasis is given to study techniques used by aquatic ecologists. Laboratory includes basic identification of aquatic organisms. Prerequisites: Grade of C or better in Biology 210, 211 or Environmental Science 210, 211. Lecture 3 hours, laboratory 3 hours per week, as well as field trips.

4 semester hours

420 Parasitology.

Study of parasites that infect man or animals that are economically important to man: taxonomy, structures, identifying characteristics and effects on man. (More than 150 protozoan and helminth parasites are agents of human disease; approximately one-third of these are common associates and comprise the scope of this course.) The laboratory component is used to permit visual observation of forms, structure and life cycle stages introduced in lecture. Prerequisite: Grade of C or better in Biology 211. Lecture 3 hours, laboratory 3 hours per week, as well as field trips.

4 semester hours

454 Histology.

A course designed to study the structure of animals at tissue and organs levels. Emphasis is placed on the recognition of mammalian tissues at the microscopic level as well as their basic functions. Proper microscope techniques also stressed. Techniques of animal tissue fixation, staining, and microscope slide mounting are covered in the laboratory component. Lecture 3 hours, laboratory 3 hours per week. Prerequisites: Grade of C or better in Biology 210, 211.

4 semester hours

455 Ornithology.

A class designed to introduce students to the systematics, behavior, major taxa, physiology and ecology of birds. Emphasis will be on, but not restricted to, local forms. Laboratories will be field-based, focusing on Identification, collection and preservation of specimens. Prerequisites: Grade of C or better in Biology 210, 211 or Environmental Science 210, 211. Lecture 3 hours, laboratory 3 hours per week, as well as field trips.

4 semester hours

482 Herpetology.

A course designed to investigate the taxonomy, distribution and natural history of reptiles and amphibians. Emphasis is placed on local forms. Techniques of field identification, collection and preservation are covered in the laboratory component. Lecture 3 hours, laboratory 3 hours per week as well as field trips. Prerequisite: Grade of C or better in Biology 210, 211, or Environmental Science 210, 211.

4 semester hours

483 Immunology.

An introduction to the anatomy and physiology of the human immune systems. Prerequisites: Grade of C or better in Biology 210, 211.

3 semester hours

500 Internship in Biology.

This special course is only available as opportunities are presented for work/study in an off campus environment. Prerequisites dependent on the nature of the internship.

1-6 semester hours

INDIVIDUAL STUDIES which may be either Guided (identified by the course number 560 or 570) or Independent (numbered 600 or 650) may be scheduled with special permission.

Business (BUSI)

120 Introduction to Marketing.

Basic marketing concepts, principles and functions. Analysis of activities through which business firms direct the flow of their goods and services to consumers. (Not restricted to majors in the Department.)

3 semester hours

140 Introduction to Accounting I.

An introductory course designed to provide the student with a firm foundation of accounting fundamentals, practices, theory, techniques, principles, and methods of accounting. (Not restricted to majors in the Department.)

3 semester hours

150 Introduction to Accounting II.

Continuation of Business 140, with a foundation of accounting principles and basic accounting theory. Includes fundamentals, analysis, and interpretation of financial statements and methods. Prerequisite: Business 140. (Not restricted to majors in the Department.)

3 semester hours

160 Introduction to Management.

An introduction to the management of organizations. Study of the processes and functions of management, the structures and designs of business organizations, and of social responsibility. (Not restricted to majors in the Department.)

3 semester hours

170 Healthcare Administration.

A survey of business management principles, concepts, and skills as applied to the healthcare field. Topics will include human resource management, budgeting, strategic planning, operations management and marketing. The course is designed to prepare healthcare professionals for administrative responsibilities. Field research in the health care area will be explored. (Not restricted to majors in the Department.)

3 semester hours

175 Risk Management and Insurance.

An overview of health insurance contracts including group and individual policies. Topic coverage will include major medical policies, supplemental insurance, dental insurance, health maintenance organizations and preferred provider organizations. An emphasis will be placed on the role of the government in health insurance (Medicare and Medicaid) as well as health reform and cost containment issues. (Not restricted to majors in the Department.)

3 semester hours

184 Computers in Business.

An overview of the various uses and effects of computers in the business world. Topics include: word processing, spreadsheets, database systems, modern business computer systems, information management, computer applications in business and managing computer resources. (Not restricted to majors in the Department.)

3 semester hours

210 Personal Finance.

An overview of personal financial planning in the areas of money management and investment strategies. Includes discussion of taxes, consumer credit, housing and other consumer decisions, legal protection, insurance, investments, retirement planning and estate planning.

3 semester hours

235 Human Resource Management.

An overview of the concepts and principles relating to the management of human resources in profit and not-for-profit organizations. Topics include employee recruitment, selection, training and development, compensation systems, performance appraisal, discipline, employee benefits, safety, labor relations and employment law. Special emphasis will be placed on the role of motivation and leadership in a team oriented organization. (Not restricted to majors in the Department.)

Prerequisites: Business 160 or WPI.

3 semester hours

250 Ethics in Business.

A study of the ethical, moral and social issues of business management. Topics include the theories of moral reasoning, organizational culture, responsiveness to stakeholders, public policy and government regulation. Students will study how political, social, and legal factors affect decision making. Course includes emphasis on practical real-world case studies. (Not restricted to majors in the Department.)

3 semester hours

251 Business Statistics.

A basic introduction to the subject of statistics from a business point of view. Statistical methodology such as sampling distributions, hypothesis testing, analysis of variance, test,

chi-square and regression analysis will be considered and explored.(Not restricted to majors in the Department.) Prerequisites: Mathematics 110 or WPI.

3 semester hours

260 Intermediate Accounting I.

Intensive study of accounting concepts and principles underlying the preparation of financial statements, with special attention to applications in measurement and reporting of selected balance sheet items and related revenue and expense recognition. Emphasis given to Accounting Principles Board opinions and Financial Accounting Standards Board statements and their ramifications on financial accounting. Prerequisites: Grade of C or better in Business 150.

3 semester hours

265 Intermediate Accounting II.

Continuation of Business 260, including a study of stockholders' equity, statement of cash flows and correction of statements. Special problems of income determination will be explored.

Prerequisite: Business 260

3 semester hours

281 Business Law I.

An introduction to the legal environment of domestic and international business. Topics include dispute resolution, business torts, business ethics and social responsibility, legal forms of business organization, international business law, employment law, government regulation, administrative law, consumer protection, environmental regulation and antitrust law.(Not restricted to majors in the Department.)

3 semester hours

285 Business Law II.

An advanced course in business law with an emphasis on contract law as prescribed by the Uniform Commercial Code. Students will explore the nature and classification of contracts, contract torts and remedies, negotiable instruments, credit regulation, agency relationships, personal property, real property, bankruptcy and landlord-tenant relationships. Prerequisite: Business 281.

3 semester hours

290 International Business.

A study of issues encountered in the global business arena. Coverage includes international trade, marketing, production, human resources, cultural differences and political risk. Intended as a prerequisite to further study and as an overview for the student who wishes to take only one international course. (Not restricted to majors in the Department.)

3 semester hours

300 Cost Accounting.

Exploration of the nature, objectives, basic systems and procedures of cost accounting and control; cost-profit volume relationships; standard costs and variance analysis; direct costing; and relevant costs. Prerequisite: Business 150.

3 semester hours

305 Training and Development.

The course will emphasize theory, principles, concepts and methodology of training for developing the human resources in an organization. The course will include both a conceptual framework as well as practical applications of training and developing employees in a work environment.

3 semester hours.

311 Auditing I.

An introduction to audit theory, internal control, development of auditing programs, evidential matter and reporting. Special emphasis is given to duties, legal responsibilities and ethics of auditors.

Prerequisite: Business 265.

3 semester hours

315 Auditing II.

Continuation of Business 311, addressing more advanced auditing topics such as audit statements, auditing standards, application of statistical sampling, auditing computerized accounting systems and internal auditing. Prerequisite: Business 311.

3 semester hours

320 Business Finance.

A study of the financial structure of business institutions. The application of managerial accounting and economic concepts to the solution of the financial problems of the firm. Prerequisite: Business 150, Economics 211, or WPI.

3 semester hours

325 Employment Law.

Overview of the legal environment of the modern American workplace and issues impacting the workplace: the employer employee contract; anti-discrimination law; employee testing and privacy; regulatory agencies; workers compensation & other statutory rights. This course will provide

- instruction in regards to individuals becoming productive and effective employers and employees in the work environment.
3 semester hours
- 335 Recruitment, Selection, and Evaluation.**
This course will provide an in depth study of the theory and application of methods used in recruiting, selecting, and evaluating employees. The course is designed for future and practicing human resource professionals, as well as employees and managers.
3 semester hours
- 341 Management Information Systems.**
This course is designed to provide the foundations of management information systems and relate it to the business environment. Topics include the theory of data and information, information requirements of management and administrators, design of information systems, hardware and software requirements, system design and implementation, and decision making with management information. Strategic guidance on the analysis, design, implementation and evaluation of health information systems - including the computer-based record - will help health students to employ the latest technologies successfully. (Not restricted to majors in the Department.) (Cross listed with Computer Science 341.) Prerequisite: Business 184 or Computer Science 134.
3 semester hours
- 343 Data Base Management Systems.**
This course is designed to provide the foundations of data base management. Topics include definition of database, storage structures, data access and retrieval, hardware and software considerations, security standards and performance controls. It will explore data base structures in the hospital, coding and classification systems, hardware and software, data access and retention, and security concerns. (Not restricted to majors in the Department.) (Cross listed with Computer Science 343.) Prerequisite: Business 184 or Computer Science 134.
3 semester hours
- 345 Marketing Research.**
An introduction to fundamentals of research methodology and use of research information in marketing decision- making. An emphasis is placed on the collection and application of marketing research regarding product development, branding, packaging and promotion. Topics include research design, data collection methods, sampling, tabulation and presentation of research information. Students design and execute a marketing research project. Prerequisites: Business 120 or WPI.
3 semester hours
- 350 Consumer Behavior.**
A study of consumer activity and the consumer decision making process. This course is designed to acquaint the student with basic behavioral science applications in buyer motivation and behavior. Theories and current research findings are examined so as to understand the behavioral patterns of consumers. Cultural, sociological and psychological influences are considered, in addition to the traditional economic interpretations. Prerequisites: Business 120 or WPI.
3 semester hours
- 355 Management Science.**
A basic overview of management science techniques. Topics include: Linear programming, PERT, CPM, decision theory, inventory models, transportation methods, queuing theory and simulation. Prerequisite: Business 251 or WPI.
3 semester hours
- 361 E-Commerce and Web Development.**
This course will introduce the student to the basic concepts of the Internet and how to do business via the Internet. It takes into account both the technology aspect and the business aspect as well as legal issues that arise in doing business on the Internet. Students will learn to create and maintain a website using HTML, DHTML, XML, Java, and FrontPage. The course will also focus on how e-business applications are used for Internet, Intranet, and Extranet based applications. Students will also create a relational database and move it to the internet. Prerequisite: Computer Science I or WPI.
3 semester hours
- 390 Special Topics in Business.**
Selected subjects, varying offerings, presenting the opportunity for a more detailed examination of a topic than is possible in a general course. May consist of a new and innovative methodology or concept newly developed in the business environment.
3 semester hours
- 410 Federal Income Tax I.**

Taxation of individuals and other matters common to both individuals and corporations and partnerships: general tax computation, business and nonbusiness deductions, capital gains and losses, inventories, depreciation, depletion, gross income inclusions and exclusions, disposal of property and installment sales. (Not restricted to majors in the Department.)
3 semester hours

415 Federal Income Tax II.

Tax accounting for business and tax entities other than individuals. Topics include taxation as related to corporation, partnerships, decedents, estates, trusts, tax-option, pensions and profit sharing. Prerequisite: Business 410.
3 semester hours

420 Advanced Accounting.

Continuation of Business 265. Topics covered include partnerships, corporate combination and consolidated financial statements. Prerequisite: Business 265.
3 semester hours

425 Government/not for Profit Accounting.

A study of the accounting principles applicable to economic units without a profit motive. Emphasis given to budgetary accounting and financial control. Prerequisite: Business 265.
3 semester hours

435 Marketing Management.

A capstone integrated study of managerial issues in marketing. Topics will include developing strategic marketing plans, retail management, sales management and management of physical distribution channels. An emphasis will be placed on the practical application of theory through methods such as simulation, case study and field experiences. Prerequisites: Business 120 or WPI.
3 semester hours

500 Business Internship.

A work experience in business, usually limited to departmental majors with junior or senior standing. Prerequisite: Written permission of professor in the student's major field and a prepared action plan (student/professor contract) with grading system and learning outcomes identified.
3-6 semester hours

550 Strategic Management/Business Policy.

A capstone course where the student is required to exercise the fundamentals gained in all business core and associated course work. Focus areas include: information literacy, business knowledge and industry concepts, logical thinking, creative and critical thinking and comprehensive understanding of the interrelationships among major branches of learning. Prerequisite: Senior standing in the Department of Business.
3 semester hours

INDIVIDUAL STUDIES: With proper permission, a major on or off campus study may be completed by a junior or senior with a major or other prerequisite background preparation in the subject area in which the course is registered. This study generally consists of an investigative project of major importance and proportions, planned by the student, approved by the advisor and independently completed during an off-campus or regular on campus semester. This study may be either Guided (identified by the Course number 560 or 570), or Independent (number 600, 610, or 650), may be scheduled with special permission.

Chemistry(CHEM)

190 Introduction to Chemistry.

A course designed to provide an overview of the field of chemistry. This course provides a basic foundation for the understanding of chemical phenomena through selected principles and applications. Knowledge of high school algebra or one college mathematics course is recommended. The laboratory is designed to give the student experience in making measurements and to help in understanding the scientific method as a means of obtaining information. Prerequisite: Grade of C or better in Mathematics 110 or equivalent.
4 semester hours

200 General Chemistry I.

A study of the principles and theories of atomic and molecular structure, chemical bonding and the physical and chemical properties of the elements. The laboratory is used to emphasize quantitative chemical analysis. Prerequisite: Prior or concurrent registration or placement in Mathematics 113.
4 semester hours

210 General Chemistry II.

Continuation of the study of the physical and chemical properties of the elements of chemistry. Ionic equilibrium and reaction kinetics. The laboratory emphasizes both quantitative and qualitative analysis. Prerequisite: Grade C or better in Chemistry 200 or WPI.
4 semester hours

215 Inorganic Chemistry.

This course serves as an introduction to the chemistry of the elements. Topics include the general chemistry of the main group elements, coordination chemistry of the transition elements, electronic structure, properties of solids and bio-inorganic chemistry. Laboratory work includes the synthesis of several inorganic compounds and their characterization by instrumental methods. Prerequisite: Chemistry 210.

4 semester hours

250 Analytical and Instrumental Methods.

A study of equilibrium and other properties of solutions, particularly as they may be dealt with by quantitative volumetric, gravimetric and instrumental analytical techniques. 2 hours lecture, and 2 three-laboratories per week. Prerequisite: Grade of C or better in Chemistry 215.

4 semester hours Lecture

291 Principles of Organic and Biological Chemistry.

A brief introduction to structure, properties and nomenclature of organic compounds. Attention is given to types of organic compounds having importance in life processes. Laboratory experiences in basic organic and biochemistry skills and equipment. Prerequisite: Grade of C or better in Chemistry 190, 210, or WPI. (Not open to students who have had Chemistry 310 or 311).

4 semester hours

300 Principles of Organic Chemistry.

This course is designed to present the chemistry of organic compounds. The structure, properties, use and synthesis are covered. Critical thinking and application of chemical principles to health-related problems are addressed. Prerequisite: Grade of C or better in Chemistry 210.

4 semester hours

303 Environmental and Toxicological Chemistry.

This course is designed to familiarize the students with physical and chemical processes influencing the behavior of contaminants in the environment. Topics include chemical toxicology, radioactivity, hazardous waste, global warming, ozone layer protection, water and air quality. Prerequisites: Grade of C or better in Chemistry 300 or 310.

3 semester hours

305 Principles of Biochemistry.

A one-semester course designed to develop an understanding of the cellular metabolism and bioenergetics through a focus on the chemistry of biomolecules, carbohydrates, lipids, proteins, enzymes and nucleic acids. The laboratory is designed to emphasize and elaborate on both concepts and techniques presented in lecture. Prerequisite: Grade of C or better in Chemistry 300 or 311.

4 semester hours

310 Organic Chemistry I.

An examination of the physical and chemical properties of organic molecules. Emphasis will be placed on explaining the characteristic reactivity exhibited by classes of organic compounds via a mechanistic interpretation of their behavior. The laboratory is used to emphasize the principles and techniques of this study. Prerequisite: Grade of C or better in Chemistry 210.

4 semester hours

311 Organic Chemistry II.

A continuation of the examination of the properties of organic molecules via a mechanistic interpretation of their reactions. The laboratory is used to emphasize the principles and techniques of this study. Prerequisite: Grade of C or better in Chemistry 310 or WPI.

4 semester hours

315 Physical Chemistry.

This course serves as an introduction to the fundamental physical properties of chemical systems. Topics include kinetics, thermodynamics, molecular and atomic spectroscopy and quantum mechanics. Laboratory work covers the quantitative study of kinetics, thermodynamics and spectroscopy, and the analysis of experimental errors. Prerequisite: Chemistry 215, 310, 311.

4 semester hours

350 Instrumental Analysis.

This course is designed to continue the analytical focus of Chemistry 250. A project approach to the study of advanced laboratory techniques and modern chemical instrumental methods. In addition, the course covers the handling and statistical treatment of data and the design, operation, uses and limitations of modern instrumental techniques. Two hours lecture, and two three-hour laboratories per week. Prerequisite: Grade of C or better in Chemistry 250 and 315.

4 semester hours

370 Biochemistry.

A study of compounds, reactions and processes important in the functioning of living organisms. The laboratory is used to emphasize the principles and techniques of this study. Prerequisite: Grade C or better in Chemistry 311 or WPI.

4 semester hours

390 Special Topics in Chemistry.

A course to present topics not listed as regular offerings. The prerequisites and semester hour credit are dependent on the topic offered.

3-4 semester hours

500 Chemistry Internship.

This special course is only available as opportunities are presented for work/study in an off campus environment. Prerequisites are dependent on the nature of the internship.

1-6 semester hours

SPECIAL TOPICS in this area (identified by the course number 195 for freshman and sophomore level or 390 for junior and senior level) may become available in certain semesters.

INDIVIDUAL STUDIES may be either Guided (identified by the course number 560 or 570) or Independent (numbered 600, 610, or 650) may be scheduled with special permission.

Communications and Speech (COMM)

100 Success in Communications.

First semester course to cover concepts and issues that will enhance the student's success in college as a Communications major. Communication majors only or WPI.

1 semester hour

130 Speaking Effectively.

Development of proficiency in oral communication. Construction and extemporaneous delivery of informative and persuasive speeches.

3 semester hours

150 Interpersonal Communication.

Emphasis on one-to-one communication. Guidance in self-understanding as a person and as a social being. Examination of how human relationships are created, developed, maintained and destroyed through communication transactions. Special emphasis on dealing with criticism and conflict resolution.

3 semester hours

155 Introduction to Broadcasting.

Introduction to radio and television broadcasting. Some hands-on experience in production, writing and announcing. Emphasis on the historical development, current practice and regulation of broadcasting in the United States.

3 semester hours

160 Analysis and Performance in the Theatre.

Analysis of a play script from the actor's, technician's and director's viewpoints. Translation of the analysis through rehearsal into a fully staged production. Production or rehearsal work required. May be repeated for credit. Prerequisite: WPI.

1 semester hour

170 Intercollegiate Debate.

Research and/or analysis of the national collegiate Lincoln-Douglas topic; preparation for and/or participation in intercollegiate debate. Minimum of four hours weekly. May be repeated for credit. Prerequisite: WPI.

1 semester hour

175 Broadcast Writing.

Writing for radio and television: news, sports, weather, public service, commercial and entertainment copy suitable for on-air use. Prerequisites: Grade of C or above in Communication 155 and Grade of C or above in English 190 or WPI.

3 semester hours

180 Individual Events.

Analysis of materials, preparation for and/or participation in religious or civic programs and/or intercollegiate speaking events such as poetry, prose or dramatic interpretation, persuasive, informative, impromptu, extemporaneous or after dinner speaking and communication analysis. Emphasis adapted to needs of the student. Minimum of four hours weekly. May be repeated for credit. Prerequisite: WPI.

1 semester hour

185 Principles and Practices of Public Relations.

Introduction to the basic concepts and principles of public relations. Includes study of the history and development of public relations and the different types of PR jobs as well as examination of the essential role that PR plays for many different types of businesses and organizations such as corporations, governments, non-profit agencies, and educational institutions. Also includes instruction in conducting research on public opinion and creating a PR campaign based on

- research findings, culminating in development of a PR campaign for a real-world business, non-profit or other type of organization.
3 semester hours.
- 190 Radio, Television, and Film in American Life.**
Examination of the scope, function and impact of mass media in American society. Introduction to critical analysis of these popular media as art forms.
3 semester hours
- 220 Broadcast Practicum.**
Hands-on experience with audio and video production equipment, management, on-air and/or production for the radio station WQAB or TV operations. Introduction to the work environment of the broadcasting industry. Five (5) hours per week during the semester of enrollment for either radio or TV. May be repeated for credit. Prerequisite: WPI.
1 semester hour
- 251 Advertising.**
Theoretical principles and practical techniques for developing contemporary advertising. Application of the basic principles to writing for various media. Tools for analyzing audience reaction and results. Theoretical and practical foundation for persuasion and practical motivation. Examination of broadcast advertising and sales, rate cards, sales package, radio/television ratings. Prerequisite: Grade of C or above in Communication 155 or WPI.
3 semester hours
- 271 Video Production I: Drama and Documentary.**
Hands-on experience in the operation of television production equipment used in both studio and field production. Practical discussion of audio, lighting, video switching, videotaping, graphics, staging and videotape editing. Prerequisite: Grade of C or above in Communication 155 or WPI.
4 semester hours
- 320 Debate: Critical Thinking/Problem Solving.**
Emphasis on the critical analysis of issues, arguments and evidence. Problem solving cases are constructed, presented, refuted and rebuilt. Ethical requirements, methods of criticism and various formats for debate are considered. Prerequisite: Grade of C or above in Communication 130.
3 semester hours
- 330 Dynamics of Advanced Oral Communication.**
Study and practice of public speaking and oral presentation with assignments designed to meet the needs and professional expectations of the individual student. Rhetorical criticism of famous speeches as primary method of covering the communication theory. Prerequisite: Grade of C or above in Communication 130.
3 semester hours
- 340 Non-Profit and Corporate Public Relations Case Studies.**
Study of public relations as a management tool, building upon what was learned in Communication 185. Focus on how internal and external PR functions in organizations, with study of many businesses and nonprofit organizations and analysis of many PR campaigns.. Students required to present case studies on organizational PR campaigns throughout the semester. Prerequisite: Communication 185
3 semester hours.
- 355 Mass Communications Law and Ethics.**
Introduction to the regulatory framework in which broadcasters operate. Historical overview of the Communication Act of 1934, the origins of Federal Communications Commission policies, other allied agencies, and various court decisions affecting the broadcast industry. Review of laws pertinent to satellite, cable, telephone, film, HDTV and DAB, and current regulatory trends. Prerequisite: Grade of C or above in Communication 155 or WPI.
3 semester hours
- 360 Oral Interpretation.**
Interpretive reading of prose, poetry and drama. Emphasis on the effective interpretation of the author's meaning and emotions. Selection, evaluation and analysis prepared before the interpretive presentation. Prerequisite: Grade of C or above in Communication 130.
3 semester hours
- 370 Video Production II: Experimental Works.**
Building on on skills and concepts introduced in Communication 271, provides opportunity to explore the theory and practice of video as an art medium in more depth. Attempts to enhance editing skills through the practical use of Final Cut Pro or iMovie editing software while producing individual projects. Includes technical lectures and demos, readings and discussions, and short assignments and screenings, followed by production and editing of students' individual projects. Videos shot on MiniDV format and transferred to DVD. Production and post-production techniques

introduced and/or reviewed, and student work presented in class for peer critique. Prerequisites: Grade of C or above in Communication 271 or Art 211, or WPI.
4 semester hours.

380 Communication Theory and Research Methods.

Systematic analysis of the leading theories involving the phenomenon of communication. Study of the fundamental nature of communication in its many contexts through learning about leading theories in the field. Analysis of literature reviews and discussion of theoretical concepts. Hypothesis of a theory of the student's choice tested through a pilot study on a communication phenomenon. Prerequisite: Sophomore level or above.
3 semester hours

390 Special Topics.

Selected and varied subjects presenting opportunity for detailed examination of a topic. Titles under consideration include: Rhetorical Theory, Directing, Conflict Resolution, Public Broadcasting, Television Programming, Distance Education.
2 semester hours

450 Communication Assessment and Careers.

Designed to help seniors majoring in Communications demonstrate their ability to meet the program's student learning outcomes and be prepared for careers of their choice. Seminar format with discussion, one-on-one and group workshops. Prerequisite: Communication major, senior status.
1 semester hour

460 Senior Project in Communication.

Field or library research project in speech, theatre or broadcast. Prerequisites: Upper class status and WPI.
3 semester hours

500 Communication Internship.

Guided, hands-on experience learning and applying communications skills with a profit or non-profit organization, business, or agency outside the traditional classroom: public relations firms, newspaper outfits, radio or TV stations, film or video companies, health organizations, government agencies, or other institutions. Off-campus experience coordinated by on-campus advisor. Prerequisite: Upper class status and WPI.
3-6 semester hours

INDIVIDUAL STUDIES which may be either Guided (identified by the course number 560 or 570) or Independent (numbered 600, 610, or 650) may be scheduled with special permission.

Computing (CSCI)

134 Introduction to Computers.

"Platforms, Applications, Networking" provides a general introduction and familiarization with MS, Windows, the local, state, and global computer networks, and the most useful applications software. Includes history and development of computers. Lecture and lab.
3 semester hours

136 Computational Thinking.

An introduction to programming in the context of computer as a media creator and transformer.
3 semester hours

171 Computer Skills In the Music Classroom.

This course is designed to provide music majors with the skills necessary to integrate the use of computers with music classroom instruction. Included is the evaluation of software, use of software packages and a familiarity with the language of computer science. Skill will be demonstrated by class projects.
1 semester hour

172 Music Software for the Teacher-Musician.

This course is designed for Music Majors to gain a basic understanding of music notation software and their applicability to the music classroom by using them to create simple musical scores/part and other educational materials. In addition music sequencing programs will be utilized allowing the students to create performance accompaniments and similar materials for classroom and performance use. Music Majors Only or WPI.
1 semester hour

173 Music Hardware for the Teacher-Musician.

This course is designed for Music Majors to gain a basic understanding of music technology hardware (e.g. MIDI hardware, synthesizers, sound reinforcement equipment, scanners, cameras, etc.) and their applicability to the music classroom by using them to create accompaniment tracks,

scan music/pictures for programs or advertising, and the use of cameras for video evaluation of ensembles. In addition, students will gain a basic understanding of entry level to mid-level sound reinforcement equipment and how to effectively use the equipment to reinforce music ensembles, theater events, and soloists.

1 semester hour

225 Medical Informatics.

This course is one to introduce basic computer skills, such as the use of spreadsheets, database systems, word processing and the use of the Internet with special emphasis on nursing applications including telehealth and telemedicine. Open only to nursing majors.

3 semester hours

234 Computing Applications.

A course designed as a continuation of Computer Science 134. Intermediate and advanced level computer skills are the focus of this course. Topics may vary to include continued study of basic computer tools, such as word processing, spreadsheet, data base systems, graphics or communications. There may also be an advanced focus on areas such as desktop publishing or multimedia publishing. This course may be taken up to three times with different applications studied. Prerequisite: a computer literacy course or WPI.

3 semester hours

250 Media Computation.

Emphasis on 2-D digital arts, including digital drawing, painting, printmaking, graphic design.

Prerequisite: Art 150 or WPI.

3 semester hours

255 Web Mastering.

Emphasis on developing a personal visual style of seeing, production, and presentation of digital works.

3 semester hours

261 Computer Science I.

Elements of a high level programming language and concepts of algorithm development. Emphasis on good programming style. Concurrent with CSC 281. Lecture 3 hours, Laboratory 1 hour per week.

4 semester hours

262 Computer Science II.

Continuation of Computer Science 261. Further aspects of a programming language explored through development of additional algorithms for problem solving. Prerequisite: Grade of C or better in Computer Science 261. Lecture 3 hours, Laboratory 1 hour per week.

4 semester hours

271 Computer Language.

Programming experience in modern computer languages are offered as one-semester courses with a different language studied every other year. See the course schedule for current offering.

Prerequisite: Computer Science 262.

3 semester hours

281 Architecture and Assembler I.

Study of the Intel-based Personal Computer Architecture and Intel 80x86 Assembly Language programming in order to develop a general understanding of computer architecture and operation and an in-depth specific knowledge of the PC and Intel 80x86 family of microcomputer processors. Concurrent with Computer Science 261.

3 semester hours

282 Architecture and Assembler II.

Continued study of the Intel based Personal Computer Architecture and Intel 80x86 Assembly Language programming including Disk I/O, File I/O, PC interfacing and 80x86 single board computers. Prerequisite: Grade of C or better in Computer Science 281.

3 semester hours

311 Computing Theory I.

This course is designed to introduce students to the design, analysis, and implementation of robust algorithms.

3 semester hours

312 Computing Theory II.

This course introduces students to a wide range of programming paradigms. This course covers topics from functional programming and logic-based programming to object based programming. Strengths and weaknesses of each type are discussed.

3 semester hours

341 Management Information Systems.

- This course is designed to provide the foundations of management information systems. Topics include the theory of data and information, information requirements of management, design of information systems, hardware and software requirements, system design and implementation, and decision making with management information. Prerequisites: Computer Science 262 plus Business 160, or WPI. (Cross listed with Business 341.)
3 semester hours
- 343 Data Base Management Systems.**
This course is designed to provide the foundations of database management. Topics include definition of database, storage structures, data access and retrieval, hardware and software considerations, security, standards, and performance controls. Prerequisites: Grade of C or better in Computer Science 262 plus Business 160, or WPI. (Cross listed with Business 343.)
3 semester hours
- 350 Communications.**
The study of computer data communication. Specific experience with various hardware and software data communication protocols using COMMKIT. Prerequisite: Grade of C or better in Computer Science 262 or WPI.
3 semester hours
- 351 Simulation.**
Students are introduced to concepts of modeling and simulation and their applications. Topics include role of modeling, design, and validation of models, control models, modeling and the firm. Prerequisites: Grade of C or better in Computer Science 262 and Mathematics 113. (Cross listed with Business 351.)
3 semester hours
- 361 Operating Systems.**
The study of computer operating systems to develop an understanding of operating system design principles and the ability to analyze, explain, critique and use the design elements and components of any and all computer operating systems. Prerequisite: Grade of C or better in Computer Science 262.
3 semester hours
- 362 Systems Programming.**
The study of the programming of computer operating systems to continue developing the understanding of operating system design principles and the ability to analyze, explain, critique and use the design elements and components of computer operating systems. Prerequisite: Grade of C or better in Computer Science 361.
3 semester hours
- 380 Computer Graphics.**
Survey of computer graphics applications, overview of graphics systems, output primitives, attributes of output primitives, transformations, windowing and clipping, segments, interactive input methods. Prerequisite: Grade of C or better in Computer Science 262.
3 semester hours
- 381 Computer Animation.**
Interdisciplinary class in 3-D Computer modeling and animation using TrueSpace. Computing majors and students in other disciplines collaborate in creating computer animations.
3 semester hours
- 390 Special Topics in Computing.**
Selected subjects, varying offerings, presenting the opportunity for a more detailed examination of a topic than is possible in a general course. Topics include Palm OS programming, Squeak Programming, Computer Forensics, Grid Programming, and other new and innovative computing technologies.
- 391 Software Engineering I.**
This course will provide students with a broad knowledge of the field of software engineering and the variety of skills (outside of programming) needed to implement large-scale software products.
3 semester hours
- 392 Software Engineering II.**
This course is a continuation of Computer Science 391 and extends the basic modeling techniques used in the previous course to the more commonly used Unified Modeling Language (UML) standard. Prerequisite: Grade of C or better in Computer Science 391.
3 semester hours
- 396 Video Game Development I.**
This course is intended to provide students with a high level introduction to the world of computer video games. Students will gain a high-level understanding of the video game experience, study the evolution of video games, and gain insight into the business of video game production.
3 semester hours

397 Video Game Development II.

This course is a continuation of CSCI-396. Students will deepen their knowledge of the C++ programming language as it applies to game programming. Students will use the Dark GDK Graphics Library as a means of developing moderately complex graphic oriented video games. Prerequisite: Grade of C or better in Computer Science 396.

3 semester hours

398 Video Game Development III.

This course is intended to be the third in a four-part series of courses that emphasize video game development. In this course students will explore the various aspects of 3D video game development and the mathematical skills necessary for developing realistic movement and interaction between video game elements. Prerequisite: Grade of C or better in Computer Science 397.

3 semester hours

399 Video Game Development IV.

This final course in the video game development series focuses on the Microsoft XNA framework for XBOX video game development. Students spend the semester becoming familiar with the C++ programming language and the XNA game development library. At the end of this course students will leverage their knowledge of 3D game development, game physics, and software development techniques to build complex video games suitable for inclusion in the official XBOX Live user community archives. Prerequisite: Grade of C or better in Computer Science 398.

3 semester hours

400 Teaching Practicum.

This course provides students with opportunities to enhance their knowledge of programming concepts through service based learning.

1 semester hour

Criminal Justice (CJUS)**200 Introduction to Criminal Justice.**

This course is designed to acquaint students with the work, professions, and types of organizations in the law enforcement field. The course reviews the conditions associated with etiology of crime and criminal behavior, types of crime, and contemporary theories of criminology.

3 semester hours

210 Crime and Deviant Behavior.

This course is designed to survey the broad topic of crime and deviant behavior. It reviews the definitions of deviance from a human and personal perspective and considers what it means from theoretical, social, and legal perspectives. The course covers in some depth particular areas of deviance such as specific crimes, legal and illegal drug use, sexual deviance, physical deviance, cognitive deviance, and mental illness. Finally the ideological, ethical, and moral implications of deviance are reviewed.

3 semester hours

300 Law Enforcement and Police Operations.

This course is an overview of the foundations of American Law Enforcement and includes a review of the history, organizational structure, police practices, and issues faced by police organizations in the United States. Prerequisites: CJUS 210

3 semester hours

320 Corrections in the 21st Century.

This course provides a historical review and survey of contemporary correctional systems in the United States. Prisons have been a major institution within the law enforcement system in the industrial world for many centuries. However, prisons have undergone great expansion since the 1990's in the US and have become a political force on their own. Nonetheless, it is widely recognized that continuing the expansions of prisons beds, if politically expedient, is not sustainable economically and that prisons may have an overall detrimental effect on many of the inmates in them. Therefore, there is a growing community corrections movement seeking alternative community programs to imprisonment.

3 semester hours

400 Criminal Investigations.

This course provides a comprehensive overview of the principles and practices of criminal investigations across a wide range of types of crimes. methods, issues faced in criminal investigations, and the basic principles important to protect evidence and the integrity of investigations. Prerequisites: CJUS 210 and 300.

3 semester hours

410 Ethics in Criminal Justice.

This course addresses the individual's responsibility to act morally and ethically using virtue theory. The course focuses on the strengths of morally good professionals and ways that students and professionals develop and exercise ethical moral judgments. Major system influences on criminal justice ethics are covered and case studies are used to illustrate the many situations and conditions that present ethical challenges to criminal justice professionals.

3 semester hours

500 Field Placement.

This course provides the opportunity for students to gain experience in a law enforcement organization. Typically this requires a student to work 8 hours per week during the semester. Approval by the student's major advisor and field placement supervisor is required.

3 semester hours

ECONOMICS (ECON)

201 Macro-Economics.

An introduction to national income accounting and determination, the circular flow diagram, inflation and unemployment, and fiscal policy. Discussion of monetary institutions and policy, economic growth and development, and international trade and finance. (Not restricted to majors in the Department).

3 semester hours

211 Micro-Economics.

An introduction to the theories of price, production, and cost. Study of different market forms, government and the price system, and resource markets; introduction to economic analysis and reasoning. (Not restricted to majors in the Department.)

3 semester hours

280 Money and Banking.

An applied economics approach to understanding the workings of the domestic and international monetary system with a focus on critical thinking, examination of events, and prediction of outcomes. Topics include money, interest rates, banks and other financial intermediaries, the Federal Reserve System, financial markets, monetary policy, and a number of related social and ethical issues. Prerequisite: Economics 201 or WPI.

3 semester hours

390 Special Topics in Economics.

Selected subjects, varying offerings, presenting the opportunity for a more detailed examination of a topic than is possible in a general course. May consist of a new and innovative methodology or concept newly developed in the economic environment.

3 semester hours

INDIVIDUAL STUDIES, which may be either Guided (identified by the course number 560 or 570) or Independent (numbered 600, 610, or 650) may be scheduled with special permission.

EDUCATION (EDUC)

180 21st Century Learning Tools: Computer Skills for Teachers.

This class is intended to provide freshman education majors an introduction to computers and technology. This class will teach students how to become proficient with the use of the ANGEL system. One will learn how to locate specific college sites within the system, send email, and browse the web for information. This course will focus on the use of Microsoft Office products such as Word, Excel, and PowerPoint to accomplish specific tasks. This class may be waived if a student has passed another introductory computer science course.

1 semester hour

200 Foundations of American Education.

Relation of the American school to its cultural context. Historic traditions, organization, administration, educational aims, school finance, social trends, the teaching profession as a career and emerging educational issues. Laboratory experience in public schools of at least 10 hours.

3 semester hours

270 Development in Early Childhood Through Adolescence.

Human development from conception through adolescence. Stages of human development are examined in relation to the physical, social, emotional, intellectual, cognitive and moral development of the child. Student diversity variables are examined for their impact on learning and development. Includes introduction to performance assessment and standardized testing. Lab experience in public schools of at least 10 hours. Prerequisite: Sophomore, Education 200 or concurrent. PPST Test taken, but not necessarily passed.

3 semester hours

280 21st Century Learning Tools: Instructional Technology Resources.

- This course is designed to provide second semester sophomores “hands-on” experience with instructional technology resources to develop the skills necessary to integrate the use of computers and other technology tools in classroom instruction and professional communications. Included will be an extensive exploration of available instructional software, popular search engines and subject directories, and internet sites. This course will examine the importance of critical evaluation and management of resources. It will also provide an introduction to contemporary communication systems (email, world wide web, wikis, blogs, podcasts , distance learning and video conferencing). Skill will be demonstrated through class projects. Prerequisites: Education 180 or another introductory computer science course.
1 semester hour
- 290 Psychological Foundations in Early Childhood Through Adolescence.**
Acquaints the student with a broad base of research on learning which forms the knowledge base of learning theory and how this research may be put into practice by today’s teachers to provide effective instruction and manage their classrooms. Includes neural, contiguity, reinforcement and cognitive approaches to studying learning. Laboratory experience in public schools of at least 10 hours. Prerequisite: Education 270 or WPI. PPST Test taken, but not necessarily passed.
3 semester hours
- 304 Mathematics in the Elementary School.**
Designed to introduce skills of pedagogy necessary to teach mathematics at the elementary level. Class sessions are a combination of lecture and hands-on experiences. Prerequisite: Education 290, Grade of C or better in Math 113, 221, 222 or WPI. Pass Math portion of PPST. Open only to education majors.
3 semester hours
- 305 Science in the Elementary School.**
A course designed to introduce the elementary teacher to the methodologies of science teaching involving an understanding of the level of the learners in relation to the techniques and methods most appropriate to their learning abilities and modes. An introduction to the nature, scope, rationale and philosophy of the more commonly used science curriculum projects in the elementary schools. Class sessions are a combination of lecture and hands-on experiences. Prerequisite: Education 290. Co-requisite or prerequisite: Reading 320. Must have completed at least 6 credits of program science requirements or WPI.
2 semester hours
- 310 Elementary General Methods.**
Methods, materials, management and curricular procedures for teaching K-6 based on learning principles, developmental principles and evaluative procedures appropriate at this level. Concurrent laboratory experiences in a public school setting. Prerequisites: Reading 320 and 322, full admission into teacher education program. Concurrent with Education 319.
3 semester hours
- 313 Physical Education Methods — PreK-Elementary Learners.**
Taken concurrently with general methods and laboratory experiences. Prerequisite: Reading 300, full admission into teacher education program.
1 semester hour
- 317 Health Education Methods — PreK-Elementary Learners.**
Taken concurrently with general methods and laboratory experiences. Prerequisite: Reading 300, full admission into teacher education program.
1 semester hour
- 319 Laboratory Experience — Elementary (K-6) Level.**
Approximately 30 hours per credit in the public schools, taken concurrently with Education 310.
1 or 2 semester hours
- 320 Middle Schools: Design and Issues.**
A seminar on middle school curricular and facility design, and current issues in middle childhood education and middle school students. Concurrent laboratory experience in the public schools. Prerequisite: Reading 300 or Reading 320 and 322, full admission into teacher education program. Concurrent with Education 329.
1 semester hour
- 321 English Methods — Grade 5-9 Learners.**
Taken concurrently with general methods and laboratory experiences. Prerequisite: Reading 300, full admission into teacher education program.
2 semester hours
- 322 Mathematics Methods — Grade 5-9 Learners.**
Taken concurrently with general methods and laboratory experiences. Prerequisite: Reading 300, full admission into teacher education program.
1 semester hour

324 Science Methods — Grade 5-9 Learners.

Taken concurrently with general methods and laboratory experiences. Prerequisite: Reading 300, full admission into teacher education program.
1 semester hour

325 Social Studies Methods — Grade 5-9 Learners.

Taken concurrently with general methods and laboratory experiences. Prerequisite: Reading 300, full admission into teacher education program.
1 semester hour

329 Laboratory Experience — Middle Childhood (5-9) Level.

Approximately 30 hours in the public schools, taken concurrently with Education 320.
1 semester hour

330 Secondary General Methods.

Methods, materials, management, and curricular procedures for instruction in secondary education, levels 5-Adult, in middle and high school. Laboratory experiences in the public schools.
Prerequisite: Reading 300, full admission into teacher education program. Concurrent with Education 329 and 339.
3 semester hours

331 English Methods — Grade 9-Adult Learners.

Taken concurrently with general methods and laboratory experiences. Prerequisite: Reading 300, full admission into teacher education program.
1 semester hour

332 Mathematics Methods — Grade 9-Adult Learners.

Taken concurrently with general methods and laboratory experiences. Prerequisite: Reading 300, full admission into teacher education program.
2 semester hours

333 Physical Education Methods — Grade 5-Adult Learners.

Taken concurrently with general methods and laboratory experiences. Prerequisite: Reading 300, full admission into teacher education program.
2 semester hours

334 Science Methods — Grade 9-Adult Learners.

Taken concurrently with general methods and laboratory experiences. Prerequisite: Reading 300, full admission into teacher education program.
1 semester hour

335 Social Studies Methods — Grade 9-Adult Learners.

Taken concurrently with general methods and laboratory experiences. Prerequisite: Reading 300, full admission into teacher education program.
1 semester hour

337 Health Education Methods — Grade 5-Adult Learners.

Taken concurrently with general methods and laboratory experiences. Prerequisite: Reading 300, full admission into teacher education program.
1 semester hour

339 Laboratory Experience - Adolescent (9-Adult) Level.

Approximately 30 hours per credit in the public schools, taken concurrently with Education 300.
1 or 2 semester hours

342 Social Studies in the Elementary School.

A course designed to guide the elementary education student in a study of the objectives, materials, instructional techniques and methodologies appropriate to the elementary school social studies program. Prerequisites: Education 290. Co-requisite or prerequisite: Reading 320. Must have completed a minimum of 12 credits of Social Sciences requirements.
2 semester hours

350 Instructional Technology in the Classroom.

Included in this course will be the use of multi-media through, videotape, Internet, distance learning, and advanced use of computers for instruction and other topics as appropriate. An individual project requiring design of instruction or use of materials will be completed. Prerequisite: Computer Science 170 or WPI. (Elective to be offered as needed.) Open to teacher education and other students.
1 semester hour

360 Educational Issues in a Multicultural and Global Society.

Each student in the course will be responsible for selecting, researching and reporting on an exhaustive study of an area of multicultural or global education. Prerequisites: Education 290, 380, 480, minimum Junior status or WPI.
2 semester hours

380 21st Century Learning Tools: Integrating Instructional Technology into Teaching.

This class is intended to provide first semester senior education students in methods courses with the tools to integrate technology into class instruction. The focus will be teaching students to use whiteboards, clickers, Smart boards, digital presenters, and other electronic media used to teach students how to integrate technology into lessons, units, teaching and student learning.

Prerequisite: admitted to Education program; concurrent with senior-level methods course;

Education 280.

0.50 semester hours

480 21st Century Learning Tools: Professional Communication Using Technology.

This course will guide students through the process of preparing electronic pieces for their student teaching work sample project and the electronic version of their Senior Portfolio, as well as also exposing them to other forms of electronic professional communication and presentation.

Prerequisites: Senior; concurrent with Education 500, Student Teaching; Education 380.

0.50 semester hours

500 Student Teaching.

Culmination and synthesis of professional study through directed observation and supervised teaching in assigned areas and at appropriate levels, 15 week minimum in the public schools.

Prerequisite: criteria met for student teaching. Concurrent with Education 550.

12 semester hours

501 Student Teaching.

Open to persons seeking or who already hold the bachelor's degree with certification, and are seeking additional certification. Variable credit is based on a proposal written by the advisor in which the request lists the previous teaching experience or certification.

1-12 semester hours

550 Seminar in the Philosophy of Teaching.

Discussion of the ethical and professional role of the teacher and its application to the solution of problems occurring during the period of student teaching. Students will complete preparation for job seeking and build a professional portfolio and work sample project in the course. (Grading: Satisfactory, Unsatisfactory.) Concurrent with Education 500.

1 semester hour

SPECIAL TOPICS in this area (identified by the course number 195 for freshman and sophomore-level 390 for junior and senior-level) may become available in certain semesters. See page 170 for a general description of this type of course.

INDIVIDUAL STUDIES which may be either Guided (identified by the course number 560) or Independent (numbered 600 or 650) may be scheduled with special permission.

English (ENGL)

(See also Journalism)

180 Language Skills.

Refinement of basic writing skills required for successful college writing. Classes and individual conferences with the instructor. (Grading S or U)

3 semester hours

185 English as a Second Language.

Designed to help students for whom English is a second language. Focus on all four language skills: listening, speaking, reading, and writing, with a cultural component. Grammar emphasized to refine basic writing skills required for successful writing in college. Opportunity for students to raise their level of proficiency in English regardless of their current proficiency. Goal is to improve students' ability to communicate in English in both oral and written work. Limited to students for whom English is a second language. (Grading S or U)

3 semester hours

190 Freshman Composition.

Refinement of basic writing process from prewriting to final draft. Short essays and documented papers with emphasis on logic, clarity, coherence and effectiveness. Correct usage and refined sentence structure studied as needed. Prerequisite: Grade of C or above in English 180, or equivalent competence.

3 semester hours

200 Advanced Composition.

Attention to refinement of language usage, development of individual style and competence in the writing of critical, analytical and persuasive essays, with some essays requiring research and documentation. A grade of C or above is needed to pass the course. Prerequisite: Grade of C or above in English 190.

3 semester hours

220 Appalachian Literature.

- Consideration of the literature and culture of Appalachia and the nature of literature itself. Reading, listening, visiting lecturers and discussion. Prerequisite: Grade of C or above in English 190 or WPI.
3 semester hours
- 225 Ethnic Literature in the United States.**
Reading and discussion of the literature of a number of ethnic groups in the United States.
Prerequisite: Grade of C or above in English 190 or WPI.
3 semester hours
- 230 Creative Writing.**
Study of the creative process and individual application of it in the writing of fiction, poetry, plays and personal essays. Student writings critiqued in workshop sessions. Not limited to English majors. May be repeated for credit. Prerequisite: Grade of C or above in English 190.
3 semester hours
- 240 Practicum in Publication of Creative Work.**
Supervised experience on the student editorial board of *InFlux*, the campus literary publication, including submission of creative writing for review, regular workshop reviews and critiques of creative work submitted by others, and assistance in editing the publication. Not limited to English majors. May be repeated for credit.
1 semester hour
- 245 Practicum in Grant Writing.**
Supervised experience in grant writing with the A-B Development Office, assisting with research, writing, and editing of grant proposals. May be repeated for credit. Prerequisite: Grade of C or above in English 260.
1 semester hour
- 250 Advanced Grammar.**
Study and application of descriptive and structural grammar with particular attention to the application of the principles of grammar to correctness and the refinement of writing style. Includes practice in applying principles of grammar and syntax to editing and teaching situations.
Prerequisite: Grade of C or above in English 190.
3 semester hours
- 260 Technical Writing.**
Application of basic writing skills to facts and data on subjects of the student's choice. Practice in writing instructions, descriptions, definitions, classifications, reports and research. A grade of C or above is needed to pass the course. Prerequisite: Grade of C or above in English 190; sophomore level or above or WPI.
3 semester hours
- 281 Forms of Literature: Drama.**
Examination of drama through reading, viewing, hearing and criticizing of drama from various periods and movements. Prerequisite: Grade of C or above in English 190 or WPI.
3 semester hours
- 282 Forms of Literature: Nonfiction Prose.**
Study of literary nonfiction prose, including the personal essay and autobiography. Students encouraged to emulate models in their own writing. Prerequisite: Grade of C or above in English 190 or WPI
3 semester hours
- 283 Forms of Literature: Fiction.**
Study of elements of fiction (narration, conflict, characterization, theme, atmosphere, tone, style and symbolism) in short stories, novellas, and/or novels. Students encouraged to use these elements in original writing. Prerequisite: Grade of C or above in English 190 or WPI.
3 semester hours
- 284 Forms of Literature: Poetry.**
Study of the elements of poetry (imagery, sound, rhythm and form) in traditional and modern poetry. Students encouraged to use these elements in original poetry. Prerequisite: Grade of C or above in English 190 or WPI.
3 semester hours
- 290 Shakespeare.**
Reading, viewing, and discussion of representative comedies, tragedies, and histories, and reading and discussion of representative sonnets. Prerequisite: Grade of C or above in English 190.
3 semester hours
- 350 Early American Literature.**
Reading and discussion of American literature through the end of the Civil War. Prerequisite: Grade of C or above in English 190. Recommended for level or above.
3 semester hours
- 355 Modern American Literature.**

- Reading and discussion of American literature since the Civil War. Prerequisite: Grade of C or above in English 190. Recommended for sophomore level or above.
3 semester hours
- 360 World Literature.**
A study of literatures other than American and British, with selected readings from the ancient past to the eighteenth century. Prerequisite: Grade of C or above in English 190. Recommended for sophomore level or above.
3 semester hours
- 365 Nineteenth and Twentieth Century World Masterpieces.**
Selections from nineteenth and twentieth century literature other than American and British, with a thematic focus that may vary from year to year. Prerequisite: Grade of C or above in English 190. Recommended for sophomore level or above.
3 semester hours
- 375 British Literature since 1785.**
Reading and discussion of British literature from the beginning of the Romantic Movement to the present. Prerequisite: Grade of C or above in English 190. Recommended for sophomore level or above.
3 semester hours
- 385 Studies of Myths and Fairy Tales.**
A systematic study of myths and fairy tales through approaches that include the historical (particularly their oral roots), typological, psychological, structural, and literary. Examination of mythic and folkloric elements as deep structures of literary works by individual authors. Prerequisite: Grade of C or above in English 190; sophomore level or above. English majors only or WPI.
3 semester hours
- 390 Special Topics in Literature.**
Selected and varying subjects presenting opportunity for detailed examination of a topic. Prerequisite: Grade of C or above in English 190.
3 semester hours
- 410 Development of the English Language.**
Study of the history of the English language with particular attention to Anglo-Saxon and medieval literature; study of the development of standardized English; and examination of the relationship of historical development and cultural context to contemporary language issues. Prerequisite: Grade of C or above in English 190. Recommended for sophomore level or above.
3 semester hours
- 450 Senior Portfolio Project.**
A senior creative or professional writing project representing the culmination of a student's undergraduate creative or professional work. Prerequisite: Senior status or WPI, English majors only.
1 semester hour
- 465 Senior Seminar in Literature.**
Study of the creative process in literature, using selected works. Culminates in a major research project and presentation by each student. Prerequisite: Five courses in literature. English majors only or WPI.
3 semester hours
- 500 Internship in Professional Writing.**
Supervised experience in an on-campus or off-campus office or other appropriate workplace, performing professional writing, editing, design, and/or publication tasks. May be repeated once for credit. Prerequisites: Grade of C or above in English 260, Grade of C or above in Journalism 210, and senior status.
3 semester hours
- 510 Internship in Publication of Creative Work.**
Supervised experience as editor of a literary publication, with chief responsibility for publication of *InFlux*, including supervision of a student editorial board in the selection and editing of creative writing submitted by members of the campus community; planning and implementation of format and design; and final production and distribution. Prerequisite: 6 semester hours of English 240, 9 semester hours of English 230 or 610, senior status, and WPI.
3 semester hours
- 520 Internship in News Editing and Production.**
Supervised experience as editor-in-chief for *The Battler Columns* or, with permission, another campus publication, with primary responsibility for supervision of editorial staff and decisions about editing, production, and publication. May be repeated once for credit. Prerequisite: Journalism 200, Journalism 210, 2 semester hours of Journalism 160, and WPI.

INDIVIDUAL STUDIES, which may be either Guided (identified by the course number 560 or 570) or Independent (numbered 600, 610, or 650) may be scheduled with special permission.

Environmental Science (ENVS)

210 Environmental Science I: The Ecological Context.

An introduction to the highly interdisciplinary study of environmental science with an emphasis on the biological environment. Topics include: Biological communities and their relationships to the environment; population dynamics; food supplies and agriculture; endangered species; introduces species; problems facing earth's major ecosystems; causes, impacts, and mitigation of ecological threats. Laboratory exercises, projects and field trips are components of this course. Prerequisite: high school level biology strongly recommended.

4 semester hours

211 Environmental Science II: The Physical Context.

This course will emphasize critical environmental issues of the physical environment. Topics include: mineral and energy resources; air quality; water resources; natural hazards; origins; impact and mitigation of environmental pollution; and conservation and management of environmental resources. Laboratory exercises, projects and field trips are components of this course.

Prerequisite: high school level biology and mathematics strongly recommended. Grade of C or better in Environmental Science 210.

4 semester hours

354 West Virginia Flora.

Introduction to the taxonomy and distribution of West Virginia plants. Emphasis is placed on common wildflower and tree species. Basic form and function of vascular plants is also discussed. Techniques of field identification, collection, and preservation are covered in the laboratory component. There will be 2 hours of lecture per week and 4 hours of laboratory per week, as well as field trips. Prerequisite: Grade of C or better in Biology 210, 211, or Environmental Science 210, 211.

4 semester hours

355 Mammalogy.

A class designed to introduce students to the systematics, behavior, and major taxa, physiology and ecology of mammals. Emphasis will be on, but not restricted to North

American mammals. Laboratories will be field-based, focusing on identifications, collection and preservation of specimens. Prerequisites: Grade of C or better in Biology 210, 211 and/or Environmental Science 210, 211. Lecture 3 hours, laboratory 3 hours per week, as well as field trips.

4 semester hours

360 Ecology.

A study of biology communities and ecosystems. Concepts such as natural selection, speciation, community succession and biomes are studied. Biogeochemical cycles and population regulation are also included. The laboratory component is used for field analysis and development of themes presented in lecture. Prerequisite: Grade of C or better in Biology 210 and 211 or Environmental Science 210 and 211 recommended. Lecture 3 hours, laboratory 3 hours per week, as well as field trips.

4 semester hours

375 Conservation Biology.

An introduction to the tools, policies and dilemmas associated with conservation of natural resources and the environment on a local and global scale. Prerequisites: Grade of C or better in Environmental Science 210, 211 or Biology 210, 211.

3 semester hours

380 Aquatic Entomology.

This class will introduce students into the taxonomy, life-history, and ecology of aquatic insects. A great deal of research and regulatory protocols utilizing aquatic insects. Aquatic insect identification and basic ecological experimentation will be covered in laboratory. Prerequisites: Grade of C or better in Biology 210, 211 or Environmental Science 210, 211. Lecture 3 hours, laboratory 3 hours per week, as well as field trips.

4 semester hours

382 Entomology.

An introduction to the study of the morphology and life history of insects and other important arthropods. Emphasis is placed on common local forms. Techniques of field identification,

collection and preservation are covered in the laboratory component. There will be three hours of lecture each week, 3 hours of laboratory work each week, as well as field trips. Prerequisite: Grade of C or better in Biology 210, 211 or Environmental Science 210, 211.

4 semester hours

390 Special Topics in Environmental Science.

A course to permit the offering of courses that are not regular offerings in Environmental Science. Offerings are determined to address the expertise of the faculty or enrich programs of study. Specific topics are advertised at scheduled registration periods. Prerequisites vary depending on the course offered.

2 or 3 semester hours

410 Limnology.

This course surveys the various types of aquatic ecosystems, with an introduction to relevant organisms. Both flowing and static waters are included. Emphasis is given to study techniques used by aquatic ecologists. Laboratory includes basic identification of aquatic organisms. Prerequisites: Grade of C or better in Biology 210, 211 or Environmental Science 210, 211. Lecture 3 hours, laboratory 3 hours per week, as well as field trips.

4 semester hours

455 Ornithology.

A class designed to introduce students to the systematics, behavior, major taxa, physiology and ecology of birds. Emphasis will be on, but not restricted to, local forms. Laboratories will be field-based, focusing on identification, collection and preservation of specimens. Prerequisites: Grade of C or better in Biology 210, 211 or Environmental Science 210, 211. Lecture 3 hours, laboratory 3 hours per week, as well as field trips.

4 semester hours

475 Wildlife Management Techniques.

A course designed to introduce students to the experimental design, field, and laboratory techniques, population analysis, and habitat analysis of wildlife populations. Emphasis will be placed on but not limited to local wildlife. Laboratories will be classroom and field-based, giving practical, hands-on applications of lecture material. Prerequisites: Grade of C or better in Environmental 210, 211 or Biology 210, 211. Lecture 3 hours, laboratory 3 hours per week, as well as field trips.

4 semester hours

482 Herpetology.

A course designed to investigate the taxonomy, distribution and natural history of reptiles and amphibians. Emphasis is placed on local forms. Techniques of field identification, collection and preservation are covered in the laboratory component. There will be three hours of lecture per week, and three hours of laboratory per week as well as field trips. Prerequisite: Grade of C or better in Biology 210, 211, or Environmental Science 210, 211.

4 semester hours

500 Internship in Environmental Science.

This course is only available as opportunities are presented for work/study in an off-campus environment. Prerequisites dependent on the nature of the internship.

1-6 semester hours

550 Seminar in Global Environmental Resources.

Students will identify and analyze important contemporary environmental issues or problems of importance to the global community. Each student will select and study in depth at least one major topic, present the findings in a scholarly paper, and give an oral presentation on the topic. The presentation will be followed by group discussion of the topic and its implications to the world environment. Prerequisite: Environmental Science 210, 211.

1 semester hour

INDIVIDUAL STUDIES, which may be either Guided (identified by the course number 560 or 570) or Independent (numbered 600 or 650) may be scheduled with special permission.

Family Studies (FMST)

200 The Helping Relationship.

An introduction to the Helping Professions with emphasis on teaching the student the helping model, the methods and communications that make it work, and learning and understanding the social service systems in the community.

3 semester hours

300 Introduction to Play Therapy.

An introduction to understanding the universal importance of play to the natural development and wholeness of children. Emphasis will be placed on the meaning of play and how it affects children.

3 semester hours

500 Supervised Field Experience.

Supervised field experience in family studies. Prerequisite Family Studies 390 and WPI.

3 - 6 semester hours

550 Seminar in Family Studies.

This course explores important psychological issues from different perspectives within the field of psychology and related academic disciplines. Critical thinking, analysis and research skills are required of the student in classroom participation and assignments. Prerequisite: Psychology 260 and 360.

3 semester hours

French (FRCH)

100 Conversational French.

Introduction to oral French through listening and active dialogue. Introduction to basic grammar and syntax of French. Available only to students registering for the Quebec International Studies Program.

4 semester hours

110 Elementary French I.

Introductory language study focusing on the development of communicative competency. Emphasis on listening, speaking, reading, writing and culture. Lab work required.

3 semester hours

111 Elementary French II.

Continuation of language study with slight emphasis on listening and speaking skills. Lab work required. Prerequisite: Grade of C or better in French 110.

3 semester hours

220 Intermediate French I.

Comprehensive continuation of four-skill study of French language and culture. Lab work and oral presentation required. Most of class conducted in French. Prerequisite: Grade of "C" or above in French 111.

3 semester hours

221 Intermediate French II.

Continued study of the four language skills and culture. Lab work and oral presentation required. Class conducted in French. Prerequisite: Grade of C or better in French 220.

3 semester hours

General Studies (GNST)

051 Applied Study Skills For PPST Reading Test.

In this course the student will reinforce reading skills such as finding main idea, making correct inferences, drawing valid conclusions, defining new vocabulary in context, and other reading skills essential for passing the PPST Reading test. Also included will be specific test-taking skills for the PPST.

0 semester hours

052 Applied Study Skills For PPST Writing Test.

In this course the student will reinforce writing skills such as identifying incorrect usage, sentence correction and essay writing skills essential for passing the PPST Writing test. Also included will be specific test-taking skills for the PPST.

0 semester hours

053 Applied Study Skills For PPST Math Test.

In this course the student will reinforce math skills such as number operations, statistics, algebra, and geometry essential for passing the PPST math test. Also included will be specific test-taking skills for the PPST.

0 semester hours

100 Study Skills.

This course introduces several study skills designed to help the student become more efficient and effective through analytical and critical thinking techniques.

1 semester hour

101: College Success – Making the Transition to College Life.

The purpose of this course is to provide first-year students with an understanding of the tools for making a successful transition from high school to college; to ensure that they become active, responsible members of the community; to help them acquire basic academic survival skills; and to help them develop into self-motivated, life-long learners.

2 semester hours

102: College Transition Skills.

Students taking this course will explore different thinking and learning approaches to college success. The students will decide which techniques work best for them and apply those skills in their classes. This course will introduce the student to career exploration.

1 semester hours

150 Applied Study Techniques.

This course provides either an individualized program of supplemental instruction for a course in which the student is currently enrolled or an individualized program of remediation instruction for passing a standardized test needed for completion of a program. This course will take the form of a supervised study group or individual tutoring, and will include a written contract and regular meetings with the Learning Resources Center Director. Satisfactory/Unsatisfactory grading.

1 semester hour

Geography (GEOG)**200 Principles of Physical and Human Geography.**

The physical habitat of man, and the manner in which man acts upon it and is influenced by it.

3 semester hours

300 World Geography.

Major geographic regions of the world; their contrasts as seen through population distribution and land utilization. Prerequisite: Geography 200.

3 semester hours

Geology (GEOL)**190 Introduction to Geology.**

Petrologic, structural and dynamic geology. History of Earth as revealed in stratification and the fossils of animal and plant life deposited in these strata, as well as the processes that shaped the earth and are changing its features continuously. There will be three hours of lecture and two hours of laboratory each week.

4 semester hours

350 Hydrogeology.

An introduction to the scientific study of water resources and processes. The course will include an introduction to surface water features and resources, but the emphasis will be on groundwater geology, basic hydrogeological principles, and practical applications. Topics include: relationships between surface and ground water; vadose and phreatic water; groundwater flow and transport; water quality; wells; groundwater pollution and remediation techniques. Prerequisite: Grade of C or better in Mathematics 110 or 113 and Geology 190

4 semester hours

390 Special Topics.

A variety of unlisted geology courses may be taught during certain semesters depending on student interests and need. Such courses might include Mineralogy and Petrology, Engineering Geology, Structural Geology, Quaternary Geology, Problems in Environmental Geology, Geology of West Virginia, Geologic Field Methods, and special summer field course offerings.

3-4 semester hours

German (GERM)**100 Conversational German.**

Introduction to oral German through listening and active dialogue. Introduction to basic grammar and syntax. Available only to students registering for the International Studies Program.

4 semester hours

110 Elementary German.

Not currently being offered

Introduction to the fundamentals of German grammar and syntax through grammatical explanation, oral drilling and conversation. Emphasis on speakers of the language and reading and listening comprehension. Reinforcement through cassette tapes.

3 semester hours

150 Conversational German II.

Continuation of the study of oral German through listening and active dialogue. Introduction to basic grammar and syntax. Available only to students registering for the International Studies Program.

4 semester hours

Health Education (HEED)

250 Personal Health.

Guidance in approaching health scientifically and developing confidence in making decisions affecting personal health.

3 semester hours

280 Contemporary Health Issues.

Existing and emerging health problems affecting specific localities, also on national and international levels. Biological and socio-psychological principles for solution.

2 semester hours

350 School Health and School Health Programs.

Organization, educational aspects and personnel relationships involved in school health services, healthful school living and health education for grades Pre K-Adult. (Not open to freshmen.)

2 semester hours

400 Community Health Education and Promotion.

Emphasis on different populations of patients and how those populations, be they cultural, occupational, or communities, affect the health and disease of the individuals within those populations. There will be an introduction of the epidemiology and biostatistical basis for disease in order to give the students a background with which to establish appropriate screening mechanism for the purposes of early identification and prevention of disease, as well as a basis for accurate interpretation of the medical literature.

3 semester hours

Health Science (HSCI)

100 Health Care Terminology.

A study of terminology used in the health care field. Includes the foundations for understanding root prefixes and suffixes in relation to determining the meaning of basic health care terminology.

Provides foundational understanding of terminology to enhance learning in future nursing and support courses.

2 semester hours

260 Nutrition.

Designed to provide a basic understanding of the nutritional aspects of body composition and the direct relationship of nutrition to the improvement of physical performance.

2 semester hours

261 Strength Training and Conditioning.

Included are the nutritional components of strength training and athletic conditioning.

1 semester hour

373 Cardiopulmonary Resuscitation.

Complete American Heart Association Cardiopulmonary Resuscitation Course. To provide the individual with the knowledge and skills designed to perform properly and promptly cardiopulmonary resuscitation on a victim who has experienced sudden death, which will give the victim the time to receive treatment by advanced medical techniques.

1 semester hour

550 Seminar in Problems in Healthcare Delivery.

Issues in quality health care delivery. Consideration of the health-team approach and its interrelated functioning, including attention to accountability of health services and the consumer movement. Prerequisite: Junior or senior status. (Grading: Honor, Satisfactory, or Unsatisfactory.)

1 semester hour

History (HIST)

150 Civilization I.

Designed to deal with the most significant cross sections of western civilization. A background of social and political history is intensified by an emphasis upon original sources from the period under consideration. Includes main themes of philosophical, literary and aesthetic development. Begins with the foundations of western culture and concludes with the period of the Reformation.

3 semester hours

160 Civilization II.

Continuation of History 150, from the Reformation to the present. A background of social and political history with readings from original sources emphasizing themes of philosophical, literary and aesthetic development.

3 semester hours

200 History of the United States to 1877.

The cultural, economic, political, and social development of America.

- 3 semester hours
- 210 History of the United States Since 1877.**
Further study of the problems and reforms that characterized maturing America.
3 semester hours
- 220 The Western Tradition.**
A cultural and intellectual history of Western civilization from 1500 to the present. Contemporary Western society is viewed as the result of an evolution of ideas. Contributions of such writers and thinkers as Machiavelli, Erasmus, Luther, Calvin, Hobbes, Locke, Voltaire, Jefferson, and Burke are considered.
3 semester hours
- 320 Europe in the Middle Ages.**
Europe from the decline of the Roman Empire in the West to the Renaissance - 4th to 15th centuries. Principal political, economic, social and religious movements. Prerequisite: History 150, 160, or 220.
3 semester hours
- 330 Renaissance and Reformation.**
The rise and spread of humanism, the emergence of individualism, the stimulation of art and literature. The decline of the Universal Church and the formation of national churches, and the Protestant Reformation. (Cross listed with Religion 330.) Prerequisite: History 150, 160, or 220.
3 semester hours
- 340 Europe in the 17th and 18th Centuries.**
Development of the nation-states. Economic structure, the Age of Reason, the French Revolution, and the Napoleonic Era. Prerequisite: History 150, 160, or 220.
3 semester hours
- 360 The Christian Church Through the Ages.**
History and development of the Christian church from the apostolic period to the modern ecumenical movement. (Cross listed with Religion 360.) Prerequisite: History 150, 160, or 220.
3 semester hours
- 370 American Legal History.**
A survey of America's legal history. Primarily, considers those legal cases and decisions that had the greatest influence on American life -those cases that best reveal the interconnection between law and society. Each case and decision will be placed within its social context and the social impact of the decision will also be discussed. (Cross listed with Political Science 370.) Prerequisite: History 200, 210, Political Science 190, 200, 240.
3 semester hours
- 375 Modern Latin American History.**
A survey of the political, social, cultural and economic histories of Mexico, Central America and South America since the region gained independence from Spain in the 1820s. Students will also undertake a three detailed case studies: Mexico and the Mexican Revolution, Nicaragua and the Sandinista Revolution and extractive industries in Brazil. Major themes include the development of nations and nationalism, capitalism and globalization, imperialism and political ideology.
3 semester hours
- 390 Special Topics in History.**
Selected subjects, varying from offering to offering, presenting the opportunity for a more detailed examination of a topic than is possible in a general course. Prerequisite: History 150 and 160 or 200 and 210.
3 semester hours
- 400 The United States in the 20th Century.**
Begins with expansionists of 1898 and emphasizes industrialization, progressivism, problems of war and peace, prosperity and depression, and cultural developments. Prerequisite: History 160, 200, 210 and 220.
3 semester hours
- 410 United States Diplomatic History.**
International relations of the United States and its rise to world power in the 20th century. (Cross listed with Political Science 410.) Prerequisites: History 160,200,210, and 220. 3 semester hours
- 420 Europe in the 19th and 20th Centuries.**
A close study of political, economic, scientific, and philosophical trends since the Napoleonic Era. Problems of international diplomacy and war and peace in the 20th century. Prerequisite: History 150, 160, 200, or 210.
3 semester hours
- 550 Seminar in History.**

This course explores important issues in history from different perspectives within the field and related academic disciplines. Critical thinking, analysis and research skills are required of the student in classroom participation and assignments. Prerequisite: History 150, 160, 200, 210, and 220, and Political Science 190, 200, and 210.
3 semester hours

Honors Program (HONR)

200 Honors Seminar.

An interdisciplinary seminar open to freshmen and sophomore participants in the College's honors program. Focus on a different theme for each successive offering and exploration of that theme from the perspective of the several academic disciplines. Intensive reading and discussion with presentations by guest lecturers. Methods of scholarly research and writing. May be repeated for credit.

3 semester hours

400 Advanced Honors Seminar.

Advanced interdisciplinary seminar in which students assume major burden for scholarly presentations on a chosen theme that will vary from year to year. Open to junior and senior participants in the College's honors program. May be repeated for credit.

3 semester hours

Humanities (HUMN)

100 Introduction to the Humanities.

Designed to introduce students in Humanities majors to issues in the Humanities and to academic activities that will enhance their chances for success in their majors.

2 semester hours

190 Introduction to American Language, Culture, and Behavior.

Exploration of the meanings and dynamics that define mainstream American language, culture, and behavior. Includes pronunciation practice exercises, listening activities, oral presentations, and films that discuss American culture and behavior. Analysis of American cultural phenomena such as the family, the student-teacher relationship, and the nurse/doctor-patient relationship to help non-native speakers understand the dynamics of American culture. Designed to help students adapt to the American way of life so that they can reside and work (either temporarily or permanently) in the United States. Reserved for students who speak English as a second language.

3 semester hours

390 Special Topics in the Humanities.

Selected and varying subjects presenting opportunity for detailed examination of a topic.

2-4 semester hours

550 Seminar in the Humanities.

Focus on a topic or issue in the humanities, culminating in a major research paper and presentation by each student. Prerequisites: Grade of C or above in two writing courses; junior or senior level. Humanities majors and secondary education majors with a teaching field in the Humanities only.

3 semester hours

International Studies (INST)

100 Introduction to the Semester in Europe.

The course will introduce the students to the basic essentials necessary for success in the Semester in Europe program. These essentials will include an introduction to the Elementary German Conversation course, as well as European culture, monetary systems, weights, measurements, and temperature conversions. Attention will be given to European customs, traditions, manners, transportation, currency, and communication systems. The students also will be taught how to read maps and plan weekend and week-long trips.

1 semester hour.

160 Contemporary European Culture.

Study of modern Europe encompassing a broad, general survey of those ideas, movements and historical incidents that have had the most profound influence on contemporary European society. Lectures, individual research and field trips. Taught on location (currently Salzburg, Austria) by faculty member accompanying International Studies group.

4 semester hours

290 Seminar in European Geography, History and Culture.

Study of geography, history, conversational German in conjunction with spring break trip to Salzburg, Austria.

3 semester hours

390 Seminar in European Studies.

Study of a significant contemporary issue facing both the European and international community. Taught on location (currently Salzburg, Austria) by faculty member accompanying International Studies group.

4 semester hours

Journalism (JOUR)

160 Journalism Practicum.

Supervised experience in the design, writing, editing, and/or production of news, features and other copy for *The Battler Columns* or, with permission, other publications of the college. May be repeated for credit.

1 semester hour

200 Introduction to Journalism.

History, theory and practice of news gathering and news writing, including applied work for college publications and broadcast media. Occasional guest lectures by area writers and broadcasters.

Prerequisite: Grade of C or above in English 190.

3 semester hours

210 News Editing and Production.

Theory and practice of news editing and production. Theory and practice of layout and design.

Occasional guest lectures by area editors, publishers, or broadcasters. Prerequisite: Grade of C or above in Journalism 200 or WPI.

3 semester hours

Leadership (LEAD)

100 Theory and Practice of Leadership.

This course examines historical and contemporary theories of leadership; however, we will largely examine and identify the personal side of leadership. This course intends to help students learn who they are as leaders, who they want to be, and how to get there.

1 semester hour

101 Leading at the Edge.

This class will explore the critical leadership principles that distinguish groups that triumph and those that fail. Through an understanding of these key principles, students will begin to prepare for a trip which will help them experience success while taking them out of their comfort zone and enabling them to learn and grow.

1 semester hour

200 Change in Leadership.

The primary focus of the class is to examine the values, goals, and skills of transformational and servant leaders. This class will examine how transformational and servant leaders inspire and motivate others. We will examine how these leaders place vision realization over personal gain and base their source of power on moral values and the betterment of others.

1 semester hour

201 Beyond Limits.

This class explores how the era we live in, the values we surround ourselves by, and the defining moments we experience shape our lives and leadership. Students will learn about leaders who have had key defining moments of their lives which they have not only survived, but succeeded.

1 semester hour.

500 Leadership Internship.

Provides participants of the SAIL program a structured opportunity for discussion, reflecting and involvement in a practical leadership experience.

1 semester hour.

Library Studies (LIST)

100 Library Study Skills.

An information literacy course designed to help students improve their library research skills.

1 semester hour

Mathematics (MATH)

110 Basic Algebra.

A course intended for those who lack sufficient algebraic skills to succeed in college mathematics of science courses. Topics include variables, polynomials, expressions, graphs, linear equations, quadratic equations, factoring, proportions and systems of equations.
3 semester hours

111 Math for Health Careers.

This course is designed to present the mathematics essential to the understanding and the analysis of topics in the physical sciences. Topics include measurement, significant figures, scientific notation, equations, formulas, exponents, geometry, basic statistics, ratio and proportion and dimensional analysis. Prerequisite: Mathematics 110 or placement.
3 semester hours

113 College Algebra.

A course intended to provide the algebraic concepts and techniques needed for the study of advanced science and mathematics courses. Topics include real numbers, polynomials, linear equations, quadratic equations, inequalities and exponents. Prerequisite: Grade of C or better in Mathematics 110 or Equivalent Competence.
3 semester hours

141 Trigonometry.

This course will be an in depth study of trigonometric functions and applications thereof. Topics to be covered include degree and radian measure, right and oblique triangles, vectors and applications, graphs of trig functions, inverse trig functions, identities, and conditional trig equations. Prerequisite: Grade of C or better in MATH-113 or placement.
3 semester hours

151 Pre-Calculus.

This course will be an in depth study of functions and applications thereof. Topics to be covered include rational, polynomial, logarithmic, and exponential functions, logarithmic equations, and finite and infinite sequences and series. Prerequisite: Grade of C or better in MATH-113 or placement.
3 semester hours

166 Discrete Mathematics I.

This course includes sets, relations, functions, number theory, propositional logic, truth tables, Boolean algebra permutations and combinations. Prerequisite: Grade of C or better in MATH-151 or placement.
3 semester hours

167 Discrete Mathematics II.

A continuation of Math 166 includes mathematical induction, generating functions, trees and graphs, vectors and matrices, recursion, set theory, finite state machines and algebraic systems. Prerequisite: Grade of C or better in MATH-166.
3 semester hours

221 Mathematics for Teachers I.

A course designed to increase the level of mathematical competence in prospective elementary and junior high school teachers. Topics include the extension of number systems to the real numbers, properties of ratios, number theory, decimals and percent. Prerequisite: Mathematics 110 or placement.
3 semester hours

222 Mathematics for Teachers II.

Further development of concepts needed by elementary and junior high school teachers. Topics include probability, statistics, relations and functions, and geometric principles. Prerequisite: Mathematics 110 or placement.
3 semester hours

231 Calculus I.

The purpose of this course is to determine the rate at which a function changes and to find the area under a curve. Topics include limits, continuity, differentiation integration, applications, and trigonometric functions. Prerequisite: Grade of C or better in Mathematics 141, 151 or WPI.
4 semester hours

232 Calculus II.

The results of Calculus I are expanded and applied to other functions and applications. Topics include exponential and logarithmic functions, methods of integration, infinite series, plane vectors, series and polar coordinates. Prerequisite: Grade "C" or better in Mathematics 231 or WPI.
4 semester hours

251 Statistics.

This course introduces the student to the elements of probability and the techniques and applications of statistics. Topics considered include frequency distribution, graphs, data description, counting techniques, probability distributions, sampling, simulation, normal distribution, correlation, regression, hypothesis testing, z- test, t-test and chi-square. Prerequisite: Mathematics 113 or WPI.

3 semester hours

312 Algebraic Structures I.

The course is designed to provide insight into the nature of basic algebraic structures of groups, rings and fields. Historical perspectives, applications and current research will be considered.

Prerequisites: Grade of C or better in Mathematics 151 and 167.

3 semester hours

313 Algebraic Structures II.

A continuation of Math 312 includes ideals and factor rings, extension fields, and advanced group theory. Prerequisite: Grade of C or better in MATH-312 or placement.

3 semester hours

315 Linear Algebra.

Designed to introduce the advanced mathematics student to the algebra of linear operations.

Topics include matrices, vector spaces, linear transformations and systems of equations.

Prerequisite: Grade of C or better in Mathematics 232.

3 semester hours

333 Advanced Calculus.

This course continues the development of and the application of concepts of calculus and analysis. Calculus concepts and techniques are extended to higher dimensions. Topics include polar coordinates, vectors, space coordinates, functions of three variables, partial differentiation, double and triple integrals, line and surface integral, Green's Theorem and Stokes Theorem. Prerequisite: Grade of C or better in Mathematics 232.

4 semester hours

371 Principles of Geometry.

The course is designed to present the fundamental concepts of geometry. The course will emphasize geometry as an axiomatic system. Axioms of Euclidean and Non-Euclidean geometry will be considered. Topics to be considered include: the axiomatic method, axiomatic systems, Euclid's postulates, connection, parallelism, angles, polygons, measurements, hyperbolic postulates, elliptic postulates and models. Prerequisites: Grade of C or better in Mathematics 141 and 167.

3 semester hours

390 Special Topics in Mathematics.

A course to provide either a more in-depth coverage of a currently offered subject or to offer coverage in an area not currently offered. Content and semester hour credit will vary from year to year. Primarily designed for mathematics majors, but open to any student with an interest and the indicated prerequisites.

2-3 semester hours

441 Differential Equations.

The results of calculus are applied to problems of a function that has been differentiated. Topics include ordinary differential equations, partial differential equations, power series methods and Laplace transformation. Prerequisite: Grade of C or better in Mathematics 232.

3 semester hours

500 Internship in Mathematics.

This special course is only available as opportunities are presented for work/study in an off campus environment. Prerequisites dependent on the nature of the internship.

1-6 semester hours

Music Education, Applied Music, and Musical Arts

MUSC(MUSC)

The following courses form the core of the music curriculum common to all three academic programs in music. They primarily emphasize the study of music as an academic discipline. Course listings use the MUSC prefix.

011 Music Remediation.

A special, individualized remediation course **required** of those Music Education, Applied Music, or Musical Arts majors who earned a grade of D or F in their first attempt at MUSC 111, Musicianship I and who wish to continue as music majors. In general, this course parallels the content of MUSC 111. The course is tailored to the individual needs of the student and will emphasize in particular those content weaknesses which contributed to the student earning the original grade of D or F in MUSC 111. In order to pass the course, the student must pass a comprehensive final examination comparable to that administered for MUSC 111. Students enrolled must pay the current one credit applied music lab fee to take this course.

1 semester hour

013 Theory Rudiments Remediation.

A special, individualized remediation course **required** of those Music Education, Applied Music, or Musical Arts majors who earned a grade of D or F in their first attempt at MUSC 113, Theory Rudiments and who wish to continue as music majors. In general, this course parallels the content of MUSC113. The course is tailored to the individual needs of the student and will emphasize in particular those content weaknesses which contributed to the student earning the original grade of D or F in MUSC113. In order to pass the course, the student must pass a comprehensive final examination comparable to that administered for MUSC 113. Students enrolled must pay the current one-credit applied music lab fee to take this course.

1 semester hour

100 Music Rudiments and Skills.

Intended for non-music major students whose program outcomes include the need for basic music-making skills (e.g., recreational leaders). This course introduces students to basic performance skills, focusing primarily on understanding musical notation, singing, and playing simple instruments.

1 semester hour

111 Musicianship I.

This is the first in a sequence of four courses designed to develop the fundamental skills necessary for good musicianship. The course emphasizes the development of fluent rhythmic skills (i.e. the accurate reading and performance of rhythms and the correct notation of rhythmic patterns by ear). Basics of sight-singing through the use of *solfeggio* syllables are introduced.

2 semester hours

113 Theory Rudiments.

This course assumes no prior study in music theory and serves as the introductory course for that study. The course emphasizes theory fundamentals (conventions of notation, intervals, scales, modes, key signatures and triads). Students with significant prior music theory training are encouraged to bypass this course by examination.

1 semester hour

115 Foundations for the Study of Music: Introduction to the Music Profession.

This course is intended to introduce beginning music students to the music profession so that their collegiate study of music can be a more productive and enriching experience. Students explore aspects of professional behavior, identify and explain the skills and attitudes that contribute to professional success, and observe and begin to emulate music professionals engaged in the various performing, scholarly, and pedagogical activities of making music. Additional emphasis is placed upon integrating the study of music with other academic discipline as encountered in the College's Liberal Studies program. MUAP 050, Music Convocation must be taken concurrently. Students are required to pass MUAP 050 with a grade of **S** in order to pass MUSC 115. MUAP 050 functions as a lab course for MUSC 115.

2 semester hours

121 Foundations of American Jazz and World Music.

This course is an introductory course covering the basic historical and compositional elements of American Jazz music and World Music (music of non-western cultures). Introduction to the styles, instruments, and musical elements will be included. Significant listening to examples of each style and major performers in each genre will be expected.

1 semester hour

150 Theory I.

This course begins the sequence of "harmony" courses. It introduces diatonic triads and seventh chords in all inversions. Activities include part-writing, realization of figured bass, analysis, simple composition, harmonization, and related topics. Prerequisite: MUSC 113 or WPI.

3 semester hours

151 Musicianship II.

This course continues the development of musicianship skills. Sight-singing, melodic, harmonic and rhythmic dictation, and other related activities involve material of moderately easy tonal and rhythmic content. Prerequisite: MUSC 111 or WPI.

2 semester hours

190 Introduction to Music.

For non-music majors, this course introduces students to masterpieces of Western art music and emphasizes the identification of those similarities which exist among forms and styles.

2 semester hours

191 Applied Conducting Lessons.

In this course, students begin the process of learning to provide effective podium leadership for small and large ensembles. This introductory course focuses on the conducting gesture motivated by music and on score preparation (including proper use of terminology, transpositions, and

- theoretical analysis). Repertoire for the course is balanced between instrumental and choral literature. Prerequisite: MUSC 151 concurrent or WPI.
2 semester hours.
- 201 Musicianship III.**
This course continues the development of musicianship skills by focusing upon materials of moderately difficult tonal and rhythmic content. Prerequisite: MUSC 151.
2 semester hours
- 205 Theory II.**
This course continues the study of tonal harmony, modulations to closely related keys, secondary dominants, borrowed chords, augmented and Neapolitan sixth chords, and other altered chords. Continuation of activities in MUSC 150, but with increased emphasis upon analysis. Prerequisite: MUSC 150.
2 semester hours
- 251 Musicianship IV.**
This course completes the sequence of musicianship courses. It involves materials of sophisticated and difficult musical content. Prerequisite: MUSC 201.
2 semester hours
- 255 Theory III.**
This course continues the study of music theory courses and is to be taken after MUSC 205, Theory II, and before MUSC 425, Modern Music Styles. The course focuses upon the harmonic procedures of chromatic tonal music, including Post-Romantic and Impressionist music.
2 semester hours
- 330 Arranging and Scoring.**
This course develops a foundation of scoring techniques through projects that provide practical experience in arranging and scoring for public school and similar performance groups.
Prerequisites: MUSC 150 and MUSC 200.
2 semester hours
- 340 Form and Analysis.**
This course examines the traditional forms of musical composition and devotes particular attention to analysis of how musical elements contribute to growth and unity within a composition.
Prerequisite: MUSC 200 concurrent or WPI.
3 semester hours
- 355 Conducting I.**
In this course, students begin the process of learning to provide effective podium leadership for small and large ensembles. This introductory course focuses on the conducting gestures motivated by music and on score preparation (including proper use of terminology, transpositions, and theoretical analysis). Repertoire for the course is balanced between instrumental and choral literature. Prerequisite: MUSC 151 concurrent or WPI.
2 semester hours
- 365 Conducting II.**
This course is a continuation of MUSC 355. The course is divided into seven-week sections: choral and instrumental conducting. In this course, students continue to develop and demonstrate rehearsal techniques appropriate for leading choral and instrumental ensembles. The course also involves some survey of literature for these ensembles. Prerequisite: MUSC 355.
2 semester hours
- 395 Issues in the Study and Performance of Music.**
This course is designed in part to provide opportunities for integrating the scholarly study of music (as represented, for example, by courses in music theory and music history), with the practical applications of music making (performance and listening). It also provides opportunities for integrating the study of music with other disciplines (Liberal Studies Goal III-A). Course work will involve major research and writing component(s) (Goals III-A and III-B). Prerequisites: MUSC 200 and MUSC 410, or WPI.
2 semester hours
- 400 History and Literature of Music I.**
This course begins the study of music history, proceeding from music of the ancient period through the Baroque.
2 semester hours
- 410 History and Literature of Music II.**
This course continues the study of music history, proceeding from early Classical music through that of the Twentieth Century.
2 semester hours
- 421 Modern Music Styles.**
Last Offering is Fall 2011.

This course is the culmination of both the music theory and music history course sequences. As such, it is continuation of both Music 205 (Theory II) and Music 410 (History and Literature of Music II). Course session will be apportioned so that each component (theory and history) will receive approximately equal emphasis. Although the theoretical and historical approaches to the study of music necessarily differ, with a corresponding difference in nature of course activities, emphasis will be placed upon integrating these approaches insofar as possible.

3 semester hours

425 Modern Music Styles.

This course is the culmination of both the music theory and music history course sequences. As such, it is continuation of both Music 255 (Theory III) and Music 410 (History and Literature of Music II). Course sessions will be apportioned so that the theory component will be the focus of one-fourth of the course's activity (.5 credits), while the history component will be the focus of three-fourths of the course's activity (1.5) credits. Although the theoretical and historical approaches to the study of music necessarily differ, with a corresponding difference in nature of course activities, emphasis will be placed upon integrating these approaches insofar as possible.

First Offering is Fall 2012.

2 semester hours.

SPECIAL TOPICS IN MUSIC, (identified by the course number MUSC 195 for freshman and sophomore levels or MUSC 390 for junior and senior levels) may become available in certain semesters.

INDIVIDUAL STUDIES, which may be either Guided (numbered MUSC 560 or MUSC 570) or Independent (numbered MUSC 600 or MUSC 610) may be scheduled with special permission.

Music Education (MUED)

The following courses develop the student's ability to be an effective music teacher in public school and similar situations. Course listings use the **MUED** prefix.

130 Class Voice.

For **Music Education non-voice** majors, this course is an introduction to singing and emphasizes the fundamentals of posture, breath control, tone production, resonance, articulation, and other concepts and skills critical to the development of vocal technique. NOTE: Music Education **voice** majors register for MUED 131, a separate course (see just below).

1 semester hour

131 Diction for Singers.

For **Music Education voice** majors, this course introduces the rules of correct pronunciation for English, Latin, Spanish, Italian, German, and French. The course includes the study of the International Phonetic Alphabet as the pronunciation standard to be used in each language. This course is open to others with instructor permission.

1 semester hour

200 Music for Classroom Teachers.

This course is intended for non-Music Education students who will be classroom teachers in elementary schools or who will teach children in similar settings. It focuses upon methods and materials appropriate to such instruction. It includes review of music rudiments and skills. Public school observation and/or appropriate field experiences may be included. Prerequisite: MUSC 100.

3 semester hours

The following five courses prepare students to teach voice, brass, woodwind and percussion instruments in public school music programs or similar settings. All provide lectures, class instruction, and practice in the playing and teaching of the standard school band instruments and voice.

240 Vocal Techniques.

Prerequisite: MUAP/MUED 130 or WPI.

1 semester hour

250 String Pedagogy.

1 semester hour

270 Percussion Pedagogy.

1 semester hour

271 Brass Techniques/Pedagogy.

1 semester hour

272 Woodwind Techniques/Pedagogy.

1 semester hour

311 Laboratory for General Music Methods.

This course provides supervised public school and other laboratory experience appropriate to general music methods. Prerequisite: MUED 310 concurrent.

1 semester hour

320 Choral Music Methods.

This course examines methods, materials and procedures appropriate to the teaching of choral music for all grade levels. Prerequisites: EDUC 290, MUSC 250 and MUSC 251 or concurrently, or WPI, and full admission into Division of Education and Special Programs; concurrent MUED 321.

2 semester hours

321 Laboratory for Choral Music.

This course provides supervised public school and other laboratory experience appropriate to choral music methods. Prerequisite: MUED 320 concurrent.

1 semester hour

330 Instrumental Music Methods.

This course examines methods, materials and procedures appropriate to the teaching of instrumental music for all grade levels. Prerequisites: EDUC 290 and MUSC 251 or concurrently, or WPI, and full admission into Division of Education and Special Programs; concurrent MUED 331.

2 semester hours

331 Laboratory for Instrumental Music Methods.

This course provides supervised public school and other laboratory experience appropriate to instrumental music methods. Major emphasis on Marching Band techniques. Prerequisite: MUED 330 concurrent.

1 semester hour

The culmination of study in Music Education is the student teaching experience. This experience is provided through EDUC 500 (Student Teaching in the Public Schools - 12 semester hours) and EDUC 550 (Seminar in the Philosophy of Teaching - 1 semester hour). Although these student teaching courses are listed as Education courses rather than Music Education courses, instruction in EDUC 500 and EDUC 550 and (thus) supervision of music student teachers is provided by the music faculty in **specific sections of the courses; students must enroll in these sections.**

Applied Music (MUAP)

The following courses focus primarily on performance in solo and in ensemble settings, the practical aspects of music-making. Course listings use the **MUAP** prefix.

050 Music Convocation.

For music majors ONLY, this course provides a structure by which music students' observation of and participation in various aspects of musical performance and related activities may be monitored. Students meet the requirements of this course by attending or participating in specified workshops, recitals, concerts and other musical performances. The particular requirements for any given semester are determined by the music faculty. Grading is Satisfactory or Unsatisfactory.

0 semester hours

130 Class Voice.

For non-Music Education non-voice majors, this course is an introduction to singing and emphasizes the fundamentals of posture, breath control, tone production, resonance, articulation, and other concepts and skills critical to the development of vocal technique. NOTE: Music Education voice majors register for MUED 131, a separate course .

131 Diction for Singers.

For non-Music Education voice majors, this course introduces the rules of correct pronunciation for English, Latin, Spanish, Italian, German, and French. The course includes the study of the International Phonetic Alphabet as the pronunciation standard to be used in each language. Open to others with instructor permission.

1 semester hour

The following sequence of courses provides class instruction in piano and is required for students majoring in all music programs. These courses focus upon the fundamentals of piano technique, including hand position, finger independence, and correct movement of wrist and arm, approached through appropriate literature and technical exercises. Skills developed are those appropriate to using the piano as a practical tool for music-making in public school or similar settings (e.g., providing a harmonization for a melody in an elementary music book). Advanced students may bypass some courses within the sequence or may bypass

the entire sequence by taking the Piano Proficiency Test (contact Music Department for more information). Prerequisite for all courses is WPI.

151 Class Piano I.

1 semester hour

152 Class Piano II.

1 semester hour

153 Class Piano III.

1 semester hour

154 Class Piano IV/Keyboard Pedagogy.

1 semester hour

The following courses provide studio instruction (private lessons) on the instruments listed below. Lessons are available for 1 semester hour (25-minute lesson/week), 2 semester hours (50-minute lesson/week), or (in special circumstances) 3 semester hours (75-minute lesson/week). At the option of the instructor, equivalent amounts of time and personal attention may be given via studio class or similar instruction. Instruction is offered in keeping with the needs, ability, and achievement of the student. Non-music majors should ordinarily expect to register for 1-semester hour lessons; music majors should ordinarily expect to register for 2-semester hour lessons. Three-credit lessons are only available with special permission from the Department chairperson. Students are notified about the specifics of their lessons (teacher, lesson time/day, materials needed, etc.) at the beginning of the semester. Private lessons may be repeated for credit. Private lessons ARE NOT AVAILABLE FOR AUDIT. Prerequisite: WPI.

181 Brass.

(Trumpet, French Horn, Trombone, Euphonium, Tuba)

1-3 semester hours

182 Organ.

1-3 semester hours

183 Percussion.

1-3 semester hours

184 Piano.

1-3 semester hours

185 Voice.

1-3 semester hours

186 Woodwinds.

(Flute, Oboe, Clarinet, Saxophone, Bassoon)

1-3 semester hours

187 Guitar.

(NOTE: emphasis is on classical guitar style)

1-3 semester hours

188 Strings .

(Violin, Viola, Cello, Bass)

NOTE: MUAP 188 is offered only on an "as needed" basis. Students should contact the Music Department about course availability before registering.

1-3 semester hours

The Music Department offers a variety of musical ensembles and encourages all interested students and community persons to participate (certain restrictions apply; see below). To varying degrees, musical ensembles require performances scheduled beyond usual rehearsal times (information specific to each ensemble is available from the Music Department and varies from semester to semester). Participants are expected to practice their individual parts outside of group rehearsals. Prerequisite for all ensembles is WPI. All ensembles may be repeated for credit.

221 Brass Choir.

Participation in Brass Choir involves study, rehearsal and performances of selected literature written or transcribed for brass ensembles. Smaller groups (brass quintet, trumpet ensembles, trombone quartets, etc.) are selected from Brass Choir membership. Two to three hours of rehearsal per week, outside preparation of individual parts, and performances as assigned are required. Audition required at beginning of semester.

1 semester hour

222 Jazz Ensemble.

Participation in Jazz Ensemble involves study, rehearsal, and performance of selected literature of all styles written for jazz ensembles. Jazz combos may be selected from the Jazz Ensemble membership, and all members are expected to attempt improvisation (instruction is provided). Two to three hours of rehearsal per week, outside preparation of individual parts, and performances as assigned are required. Audition required at beginning of semester.

1 semester hour

223 Woodwind Chamber Ensemble.

Participation in Woodwind Chamber Ensemble involves study, rehearsal and performance of selected literature written or transcribed for woodwind ensembles. Two hours of rehearsal per week, outside preparation of individual parts, and performances as assigned are required. Audition required at beginning of semester.

1 semester hour

230 Concert Band.

Participation in Concert Band involves study, rehearsals, and performance of selected literature for winds and percussion. Three hours of rehearsal per week, outside preparation of individual parts, and performances as assigned are required. Audition required at beginning of semester.

1 semester hour

240 Concert Choir.

Participation in Concert Choir involves study, rehearsal, and performance of selected choral literature in a variety of styles. A Chamber Ensemble of 12-15 voices and other smaller groups (e.g. Barbershop Quartet, Beautyshop Quartet) are selected from the membership of the Concert Choir. Three hours of rehearsal per week, outside preparation of individual parts, and performances as assigned are required. Audition required at beginning of semester.

1 semester hour

250 "The West Virginians".

Participation in "The West Virginians" is limited to twelve student vocalists and instrumentalists selected by competitive auditions during the previous year. This ensemble performs a wide variety of sacred and secular choral literature in all styles from classical to popular. Public relations outreach (primarily to schools and churches) on behalf of the College and the State of West Virginia is central to the ensemble's mission. Six to eight hours of rehearsal per week, outside preparation of individual performance duties, and over 100 performances are required. A summer tour is also required.

1 semester hour

251 Opera Workshop.

Participation in Opera Workshop involves study and rehearsal of selected opera literature and culminates in performance(s) of a program of opera scenes. Two to three hours of rehearsal per week, outside preparation of individual parts, and performances as assigned are required.

1 semester hour

260 Chapel Choir.

Participation in Chapel Choir involves rehearsal and performance of anthems and other sacred music at weekly chapel services. One rehearsal per week and chapel service, outside preparation of individual parts, and performances as assigned are required. All interested persons will be allowed in the Chapel Choir; auditions will be used for placement of persons in sections. (Grading "S" or "U")

1 semester hour

270 Music Ensembles Touring Laboratory.

This course is taken ONLY in conjunction with an ensemble's extended national or international tour. A laboratory fee is assessed for the course, but is determined by the particular cost of the tour (and thus varies from offering to offering). Prerequisite: WPI and appropriate ensemble concurrent.

1 semester hour

The Music Department offers other performance opportunities ***not available as courses for credit***.

Currently-offered examples of these include the Handbell Choir, and Barbershop and Beautyshop Quartets. Information about these and other music participation activities is available from the Department.

Natural Science (NSCI)

100 Success in the Sciences. A Freshman Experience Course. Strategies Enabling First-Year Students to Succeed in College as Science Majors.

This course provides first-year students with knowledge and understanding of the skills and behaviors necessary for their success as college science majors including becoming engaged in their academic, college, local, and world communities.

3 semester hours

180 Physical Science I: Astronomy.

An introductory survey of all areas of the natural sciences. Prerequisites: Junior or senior level of study.

2 semester hours

181 Physical Science II: Geology.

A basic review of the earth: its structures, its evolution, the processes that shape it, and the methods of geologic inquiry. Lectures and laboratory experiences. (Not open to students who have had Geology 190).

1 semester hour

182 Physical Science III: Meteorology.

An introduction to the science of the atmosphere, including all of its aspects and especially those factors and elements that influence weather. Special attention is given to the various forces of the earth and atmosphere that give rise to weather, as well as methods and instrumentation for measurement and possible control. Lectures and laboratory experiences.

1 semester hour

185 General Science, Science and Society.

Basic concepts of chemistry and physics including states of matter, atomic structure and bonding, chemical reactions, force, motion, energy, simple machines, magnetism and electricity. The interactions of technology with society are discussed with emphasis placed on environmental and human interactions. Three hours lecture and two hours laboratory experience per week.

4 semester hours

295 Current Advances in Science and Technology.

A discussion based course that examines the current topics in science. These topics range from the new innovations in computer technology to advances in medical science or space exploration. Lecture 2 hours. (Only open to students enrolled in the LPN-BSN program).

2 semester hours

361 Research Methods I.

This course is designed to teach students the basic skills involved with scientific research. Topics include literature search, reading and writing scientific papers, analysis and critique of scientific papers, data analysis, oral presentation, and resume writing.

2 semester hours

362 Research Methods II.

In this course the student must assemble a Senior Research Project Committee consisting of three faculty (Major research advisor and two additional advising faculty), and select a topic for their Senior Research Project. Research proposal writing and presentation will be discussed along with research funding. The student's project topic and research proposal/plan will be presented to and approved by the Committee as the final part of the course. Prerequisite is a Grade of C or better in NSCI-361.

1 semester hour

390 Special Topics in Natural Science.

A course to offer courses not listed as scheduled offerings. The content, prerequisite, and semester hour credit is dependent on the topic offered.

2-3 semester hours

395 Issues in the Natural Sciences.

A course to permit focus on issues of science. The moral, ethical, and philosophical implications of scientific investigations. A general science format includes any or all areas of the natural sciences. Prerequisite: Junior or senior level of study.

2 semester hours

461 Senior Research Project.

In this course students will perform their research, write up the results in paper form, and present their results to their Senior Research Project Committee and the general public in oral/poster formats. Prerequisite: Grade of C or better in NSCI-362.

1 semester hour

501 Research in Natural Sciences.

This course is designed for the student to explore, in depth, a meaningful research topic of interest in the Natural sciences. This research is conducted in collaboration with a faculty mentor. Course may be repeated for additional credit. Prerequisite: WPI.

1-4 semester hours.

INDIVIDUAL STUDIES which may be either Guided (identified by the course number 560 or 570) or Independent (numbered 600 or 650) may be scheduled with special permission.

Nursing (NURS)

Notes: The nursing student progresses through three curricular levels: Level I, Provider of Care; Level II, Manager of Care; and Level III, Member of the Profession. Each level has three Student Learning Outcomes (SLOs), and as the student progresses, the SLOs accumulate and reflect the increasing complexity of the curriculum. All of the nursing courses listed below lead to a Bachelor of Science in Nursing degree. The information after

the course title indicates the various tracks (Traditional BSN, LPN-BSN, RN-BSN) for which the course is designed. In some instances, the same course material may be covered but is broken down differently to meet the learning needs of various students, e.g. Nursing 414 and 415 for traditional students and Nursing 402 and 412 for LPN-BSN students. The end result is the same. Courses may be listed as co-requisites in order to complete the program in a timely manner. A variation in this is by departmental permission.

103 Introduction to the Profession of Nursing: The Art (*Traditional*).

As the first course of Level I, this course explores the concept of acquiring various kinds of knowledge and how it relates to health promotion for oneself and others. The total well-being of the nursing student in developmental crisis is embraced. The relevance of liberal arts and support courses to the academic development of the art of professional nursing is demonstrated through inquiry and communication, both oral and written. Level I SLOs of Caregiver, Communicator and Teacher are introduced through nurses' stories (2 semester hours lecture). Pre-requisite: Departmental permission.

2 semester hours

113 Introduction to the Profession of Nursing: The Science (*Traditional*).

This second course of Level I introduces nursing process and Maslow's Hierarchy of Basic Human Needs which provides the framework for delivery of content. Building on the concepts relating to the art of nursing that were introduced in Nursing 103, this course focuses on the science of nursing. Attention is given to the total well-being of the nursing student in developmental crisis. The SLOs of Caregiver, Communicator and Teacher are further developed through linkages with nursing process, Maslow's Hierarchy and the nurses' stories of Nursing 103. The relevance of liberal arts and support courses to the academic development of a professional nurse continues to be demonstrated (2 semester hours lecture). Pre-requisite: NURS 103 or departmental permission. Each stated prerequisite must be completed with a grade of C or better.

2 semester hours

202 Life Span Physical and Health Assessment (*LPN-BSN*).

This lecture/clinical course is designed to provide the entry-level practitioner with the cognitive and psychomotor skills necessary to conduct physical and health assessments on individuals across the life span. Attention is given to developmental and transcultural considerations and beginning therapeutic communication skills necessary to help fulfill the SLOs of Caregiver, Communicator and Teacher (3 semester hours lecture and 1 semester hour clinical). Pre-requisite: LPN status or departmental permission. Co-requisites: Nursing 204 and CSCI 225. Cross-listed with Nursing 502.

4 semester hours

203 Fundamentals of Nursing (*Traditional*).

This course introduces the beginning clinical student to nursing practice in professional health care as it relates to the promotion and support of adaptation in clients experiencing developmental crisis. The acquisition of knowledge and basic skills necessary for assessment and therapeutic intervention are integral parts of this course. Students focus on the SLOs of Caregiver, Communicator and Teacher as they acquire knowledge, skills, attitudes and behaviors necessary to help fulfill Level I (3 semester hours of lecture and 2 semester hours of clinical). Pre-requisites: Nursing 103 and 113; Biology 270 and 271; Chemistry 190; Health Science 100 and 373; Mathematics 111; Psychology 220, or departmental permission. Co-requisites: Nursing 206, Health Science 260 and Computer Science 225. Each stated prerequisite must be completed with a grade of C or better.

5 semester hours

204 Transition to Professional Nursing (*LPN-BSN*).

This course assists the LPN-BSN student through the initial transition from the role of a licensed practical nurse to the role of the professional registered nurse. The philosophy, goals, competencies and conceptual framework of the program are presented. The nursing curriculum is discussed and explored as the student integrates the concepts of professionalism, scientific methods of inquiry, and critical thinking as applied to professional nursing practice. The Level I SLOs of Caregiver, Communicator and Teacher are emphasized (3 semester hours lecture). Pre-requisite: LPN status or departmental permission. Co-requisite: Nursing 202.

3 semester hours

206 Health and Physical Assessment (*Traditional*).

In this course the entry-level practitioner is introduced to the cognitive and psychomotor skills necessary to conduct physical and health assessments on individuals across the lifespan. Attention is given to developmental and transcultural considerations necessary to help fulfill the SLOs of Level I: Caregiver, Communicator and Teacher (2 semester hours of lecture and 1 semester hour of clinical). Pre-requisites: Nursing 103 and 113; Biology 270 and 271; Chemistry 190; Health

Science 100 and 373; Mathematics 111; and Psychology 220, or departmental permission. Co-requisites: Nursing 203, Health Science 260, and Computer Science 225. Each stated prerequisite must be completed with a grade of C or better.

3 semester hours

225 Nursing Care of Adults I (*Traditional & LPN-BSN*).

Students have the opportunity to explore the foundations of adult care by discussing and demonstrating the pathophysiology, microbiology, pharmacology, and nursing knowledge, skills, attitudes and behaviors necessary to assist the adult client to adapt to situational crisis. Situational crisis may result from the client's inability to meet human needs due to diseases and disorders of integumentary functions, cognition-perception, mobility, oxygenation, and sexuality-reproduction. The student focuses on planning and implementing comprehensive client care advancing the Level I SLOs of Caregiver, Communicator and Teacher and adding Level II SLOs of Decision-Maker, Counselor and Coordinator of Care (7 semester hours lecture and 3 semester hours clinical). Pre-requisites Traditional students: Nursing 203 and 206, Computer Science 225 and Health Science 260. Pre-requisites LPN-BSN students: Nursing 202, and 204, Computer Science 225 or departmental permission. Each stated prerequisite must be completed with a grade of C or better.

10 semester hours

325 Nursing Care of Adults II (*Traditional & LPN-BSN*).

This course provides the opportunity to explore the foundations of adult care by discussing and demonstrating the pathophysiology, microbiology, pharmacology, and nursing knowledge, skills, attitudes and behaviors necessary to assist the adult client to adapt to situational crisis. The student focuses on planning and implementing comprehensive client care by advancing the Level I SLOs of Caregiver, Communicator and Teacher and incorporating Level II SLOs of Decision-Maker, Counselor and Coordinator of Care (7 semester hours lecture and 3 semester hours clinical). Pre-requisite Traditional: Nursing 225 or departmental permission. Pre-requisite LPN-BSN: Nursing 368 or departmental permission. Each stated prerequisite must be completed with a grade of C or better.

10 semester hours

348 Nursing Care of Childbearing Families (*Traditional & LPN-BSN*).

Students are provided the opportunity to discuss and demonstrate the application of pathophysiology, pharmacology, microbiology, and nursing knowledge, skills, attitudes and behaviors necessary to assist clients to adapt during multiple complex crises related to childbearing while advancing the Level I SLOs of Caregiver, Communicator and Teacher and Level II SLOs of Coordinator of Care, Decision-Maker and Counselor. Level III SLOs of Leader, Advocate and Collaborator are emphasized (3 semester hours lecture and 2 semester hours clinical). Pre-requisites Traditional: Nursing 368 and 418, or departmental permission. Pre-requisite LPN-BSN: Nursing 368 or departmental permission. Co-requisites Traditional: Nursing 413, 414, and 450. Each stated prerequisite must be completed with a grade of C or better.

5 semester hours

350 Education Foundations and School Law.

Concepts related to the legal structure and governance of public education will be investigated. Emphasis will be given to school law, legal procedures, policy-making, rules, regulations and issues pertinent to school nursing. Departmental permission required.

2 semester hours

368 Acute Psychosocial Nursing (*Traditional & LPN-BSN*).

This course provides the opportunity to discuss and demonstrate the application of nursing knowledge, skills, attitudes and behaviors necessary to assist the adult client to adapt to multiple complex crises arising from the unmet psychosocial needs as evidenced in psychiatric disorders. This course builds on Level I SLOs of Caregiver, Communicator and Teacher as well as Level II SLOs of Coordinator of Care, Counselor and Decision-Maker. The student practices self-awareness and therapeutic use of self in one-to-one and psychiatric milieu interventions. Level III SLOs of Leader, Advocate and Collaborator will be emphasized (2.5 semester hours lecture and 1.5 semester hours clinical). Pre-requisite Traditional: Nursing 325 or departmental permission. Pre-requisite LPN-BSN: Nursing 418 or departmental permission. Co-requisite Traditional: Nursing 418. Each stated prerequisite must be completed with a grade of C or better.

4 semester hours

390 Special Topics in Nursing.

Selected clinical experiences that provide the opportunity for focused clinical practice to enhance a student's knowledge and performance in a specific clinical area of nursing. Instructor permission required.

1-3 semester

391 Special Topics in Clinical Nursing.

This course offers selected clinical experiences that provide the opportunity for focused clinical practice to enhance a student's knowledge and performance in a specific clinical area of nursing. It will incorporate leveled SLOs learned to date. Instructor permission required (1-3 semester hours clinical).

1-3 semester hours

402 Member of the Profession: Community as Client I (LPN-BSN).

The core knowledge, skills, attitudes and behaviors necessary for preparing the baccalaureate nurse to be a leader in comprehensive community health with special emphasis on community as client are addressed. Level I and II SLOs of Caregiver, Communicator, Teacher, Coordinator of Care, Counselor and Decision-Maker are advanced. Clinical experiences include opportunities for collaboration, advocacy and leadership, thus incorporating SLOs for level III (2 semester hours lecture and 1 semester hour clinical). Pre-requisite: Nursing 413 or departmental permission. Co-requisite: Nursing 450 or departmental permission. Each stated prerequisite must be completed with a grade of C or better.

3 semester hours

412 Member of the Profession: Community as Client II (LPN-BSN).

This course builds on the core knowledge, skills, attitudes and behaviors from Nursing 402 that are necessary for preparing the baccalaureate nurse to be a leader in comprehensive community health. It includes the advancement of Level I SLOs, Caregiver; Communicator and Teacher, as well as those of Level II, Coordinator of Care; Counselor and Decision-Maker. Clinical experiences provide for opportunities to collaborate with communities and multidisciplinary resources to promote community health and reduce risks. Advocacy issues and leadership opportunities for community as client are operationalized. This Level III course addresses the SLOs of Leader, Advocate and Collaborator (1 semester hour lecture and 1 semester hour clinical). Pre-requisites: Nursing 402 and 450. Co-requisite: Nursing 416. Each stated prerequisite must be completed with a grade of C or better.

2 semester hours

413 Community Mental Health Nursing (Traditional & LPN-BSN).

Students are provided the opportunity to discuss and demonstrate the application of nursing knowledge, skills, attitudes and behaviors necessary to assist the adult client to adapt to multiple complex mental health crises. As co-leader of psychoeducational groups, the student practices self-awareness as mental health concepts are explored in relation to at-risk populations, assertiveness and crisis intervention. Level III builds on earlier SLOs of Caregiver, Communicator and Teacher (Level I) as well as Coordinator of Care, Decision-Maker and Counselor (Level II). This Level III course explores and incorporates the SLOs of Leader, Advocate and Collaborator in the community mental health system (1.5 semester hours lecture and 1.5 semester hours clinical). Pre-requisites Traditional: Nursing 418 and 368 or departmental permission. Pre-requisite LPN-BSN: Nursing 348. Co-requisites Traditional: Nursing 414, 438 and 450. Each stated prerequisite must be completed with a grade of C or better.

3 semester hours

414 Member of the Profession: Foundations of Community as Client (Traditional).

Through this clinical-only course, students experience the paradigm shift from individual/family as client to community as client. Level I & II SLOs of Caregiver, Communicator, Teacher, Coordinator of Care, Decision-Maker and Counselor are advanced and incorporated into the course with Level III SLOs of Leader, Collaborator and Advocate. Students form nursing teams that focus on cardiovascular secondary prevention activities for an identified community. Learning opportunities may include but not be limited to skills labs, simulations, role play, case studies, and community exploration and assessment (1 semester hour clinical). Pre-requisites: Nursing 368 and Nursing 418. Co-requisites: Nursing 348, 413 and 450. Each stated prerequisite must be completed with a grade of C or better.

1 semester hour

415 Member of the Profession: Community as Client (Traditional).

This course builds on the baccalaureate experiential knowledge, skills, attitudes and behaviors from Nursing 414 necessary for preparing the entry level nursing baccalaureate graduate to be a leader in comprehensive community health while advancing earlier SLOs of Caregiver, Communicator, Teacher, Coordinator of Care, Decision-Maker and Counselor (Levels I and II respectively). Didactic and clinical experiences focus on the analysis and synthesis of Level III's SLOs of Leader, Advocate and Collaborator in the context of community as client. Cardio-vascular health promotion/risk reduction evidence-based practice is the clinical focus (3 semester hours lecture and 1 semester hour clinical). Pre-requisites: Nursing 348, 413, 414 and 450. Co-requisite: Nursing 416. Each stated prerequisite must be completed with a grade of C or better.

4 semester hours

416 Leading and Managing in the Health System (Traditional & LPN-BSN).

While providing for continued development of the SLOs of Caregiver, Communicator, Teacher, Coordinator of Care, Decision-Maker and Counselor, this course emphasizes the Level III SLOs of Leader, Advocate and Collaborator with particular emphasis on Leader. Knowledge of leadership, management, legal principles, advocacy and collaboration facilitate performance as leader and manager within the health care system (3 semester hours lecture and 3 semester hours clinical).

Pre-requisites Traditional: Nursing 348, 413, 414 and 450. Pre-requisites LPN-BSN: Nursing 402 and 450; or departmental permission. Co-requisite Traditional: Nursing 415. Co-requisite LPN-BSN: Nursing 412. Each stated prerequisite must be completed with a grade of C or better. 6 semester hours.

418 Nursing Care of Children (*Traditional & LPN-BSN*).

This course provides for the continued development of Level I and Level II SLOs: Caregiver, Communicator, Teacher, Coordinator of Care, Counselor and Decision-Maker while emphasizing Level III SLOs. Students are given the opportunity to discuss and clinically demonstrate the application of nursing knowledge, skills, attitudes and behaviors necessary to assist children and their families to adapt to multiple complex crisis. This course requires the student to relate mechanisms of disease and drug therapy to SLOs of Level III of Leader, Advocate and collaborator, which are necessary in planning and implementing comprehensive client care (4.5 semester hours lecture and 1.5 semester hours clinical). Pre-requisite Traditional and LPN-BSN: Nursing 325 or departmental permission. Co-requisite Traditional: Nursing 368. Each stated prerequisite must be completed with a grade of C or better.

6 semester hours

450 Nursing Research (*Traditional & LPN-BSN*).

As a consumer of research, the student is provided the opportunity to develop a basic understanding of each phase of the research process to enable a critical appraisal of research literature and facilitate the incorporation of findings into evidence based practice. Level I and II SLOs of Caregiver, Communicator, Teacher, Coordinator of Care, Counselor and Decision-Maker are advanced and the Level III SLOs of Leader, Collaborator and Advocate are linked to research process and findings. Students have the opportunity to explore qualitative and quantitative designs, epidemiology and biostatistics, and are introduced to international nursing studies (3 semester hours lecture). Pre-requisites Traditional: Nursing 368 and 418 or departmental permission. Pre-requisite LPN-BSN: Nursing 413 or departmental permission. Co-requisites Traditional: Nursing 348, 413, and 414. Each stated prerequisite must be completed with a grade of C or better. Cross listed with Nursing 507.

3 semester hours

490 Transitioning International Nursing Partnership Students for Success (Arellano University transfer students).

This course explores the essential elements of nursing in the healthcare system of the United States as it endeavors to prepare foreign nursing students with the skills necessary to continue and successfully complete their nursing education in the International Nursing Partnership. While a transition course, the learner nonetheless advances the SLOs of Level I: Caregiver, Communicator, Teacher; and Level II: Coordinator of Care, Counselor and Decision-Maker. Level III SLOs of Leader, Collaborator and Advocate are emphasized. Designed for the non-native nursing student, this course will focus on socialization to the college and to the professional nursing role within the U.S. healthcare delivery system. Validation of educational, clinical and workplace competencies and clinical experiences occur to bridge practice gaps between the Philippines and the U.S. The primary goal of this course is to foster a supportive environment that provides the necessary education and resources to bridge practice differences between foreign education nursing students and the healthcare system they will encounter in the U.S (3 semester hours lecture and 3 semester hours clinical). Prerequisite: Departmental permission. Enrollment is restricted to Arellano University transfer students.

6 semester hours

491 Improving Critical Thinking through Test-Taking Strategies (*Traditional & LPN-BSN*)

This course helps hone the critical thinking skills of BSN graduates as they prepare for the NCLEX-RN examination. Levels I, II, and III SLOs apply, while students problem-solve hundreds of NCLEX-style questions. Students synthesize knowledge, skills and attitudes under individualized guidance and encouragement from their nursing-faculty mentors. Together they critically strategize how to answer alternative format questions in clinical application scenarios which helps prepare the graduates for NCLEX success and competent professional practice (1 semester hour clinical). Prerequisite: May or August graduation or Departmental permission.

1 semester hour

501 Conceptual Foundations of Professional Nursing (*RN-BSN*).

This course introduces the RN-BSN completion student to the conceptual basis of professional nursing at the baccalaureate level. The philosophy, goals, competencies and conceptual framework

of the program are presented. The nursing curriculum is explored as the student integrates the concepts of client, health, environment and nursing into the conceptual themes of adaptation, human needs, crises and role development. Discussion and application of the concepts of professionalism, research, life-long learning, critical thinking, portfolio development and the roles in professional nursing practice are included. Accompanying the didactic class is an application experience designed to provide the student with an opportunity to examine his/her nursing practice incorporating Level I SLOs. In addition, student selects one Level I SLO (Teacher, Communicator, Caregiver) and explores the qualifications, competencies and continuing development issues inherent to the role selected (3 semester hours lecture and 1 semester hour clinical). Prerequisite: RN status or departmental permission. Co-requisite: Nursing 502. Each stated prerequisite must be completed with a grade of C or better.

4 semester hours

502 Lifespan Physical and Health Assessment (RN-BSN).

This lecture/clinical course is designed to provide the entry-level practitioner with the cognitive and psychomotor skills necessary to conduct physical and health assessments on individuals across the life span. Attention is given to developmental and transcultural considerations and beginning therapeutic communication skills necessary to help fulfill the SLOs of Caregiver, Communicator and Teacher (3 semester hours lecture and 1 semester hour clinical). Pre-requisite: RN status or departmental permission. Co-requisite: Nursing 501. Cross listed with Nursing 202.

4 semester hours

503 Leading and Managing Health Systems I (RN-BSN).

In this course, the student analyzes current topics affecting the professional nurse including political, legal, ethical, licensing and credentialing issues, and moral forces and trends. An application experience is designed to provide the student with an opportunity to operationalize these issues and trends. The student selects a current issue or trend, advances Level I SLOs of Caregiver, Communicator and Teacher, and emphasizes Level II SLOs of Decision- Maker, Counselor and/or Coordinator of Care. The impact of this issue on clients and health care is analyzed (3 semester hours lecture and 1 semester hour clinical). Pre-requisites: Nursing 501 and 502 or departmental permission. Co-requisite: Nursing 507. Each stated prerequisite must be completed with a grade of C or better.

4 semester hours

504 Leading and Managing Health Systems II (RN-BSN).

While advancing earlier SLOs of Caregiver, Communicator, Teacher, Coordinator of Care, Counselor and Decision-Maker, the Level III SLOs of Leader, Collaborator and Advocate as well as the concepts of delegation and management fulfill the central tenets of this course. The RN-BSN completion student explores health care economics, work-place advocacy and issues surrounding the changing health care environment as a nurse-leader in order to facilitate change in the health care environment (3 semester hours lecture). Pre-requisites: Nursing 503 and 507 or departmental permission. Co-requisite: Nursing 505. Each stated prerequisite must be completed with a grade of C or better.

3 semester hours

505 Community Mental Health (RN-BSN).

This course provides the opportunity to discuss and demonstrate the application of nursing knowledge, skills, attitudes and behaviors necessary to assist the client to adapt to multiple complex crises arising from complicated societal, community and psychodynamic forces resulting in unmet mental health needs. As co-leader of psychoeducational groups, the student practices self-awareness as mental health concepts are explored in relation to at-risk populations, assertiveness and crisis intervention. As clinicians, RNs already bring a knowledge base in such areas as addiction and abuse, so this course targets therapeutic management of these and other mental health hazards affecting self, family, workplace and society. This course builds on earlier SLOs of Caregiver, Communicator, Teacher, Coordinator of Care, Decision-Maker and Counselor. Level III will be further developed through the exploration and incorporation of SLOs of Leader, Advocate and Collaborator in the community mental health system (1.5 semester hours lecture and 1.5 semester hour clinical). Pre-requisites: Nursing 503 and 507 or departmental permission. Co-requisite: Nursing 504. Each stated prerequisite must be completed with a grade of C or better.

3 semester hours

506 Community Nurse Leadership (RN-BSN).

The core knowledge, skills, attitudes and behaviors necessary for preparing the baccalaureate nurse to be a leader in comprehensive community health with special emphasis on community as client are addressed. Clinical experiences include opportunities for collaboration with communities and multidisciplinary resources to promote community health and reduce risks. Advocacy issues for community as client are addressed. The content builds on earlier SLOs of Caregiver, Communicator and Teacher as well as Coordinator of Care, Decision-Maker and Counselor while

emphasizing the Level III SLOs of Leader, Collaborator and Advocate (2 semester hours lecture and 1 semester hour clinical). Pre-requisites: Nursing 501 and 502 or departmental permission. Co-requisite: Nursing 503. Each stated prerequisite must be completed with a grade of C or better.

3 semester hours

507 Nursing Research (RN-BSN).

As a consumer of research, the student is provided the opportunity to develop a basic understanding of each phase of the research process to enable a critical appraisal of research literature and facilitate the incorporation of findings into evidence based practice. Level I and II SLOs of Caregiver, Communicator, Teacher, Coordinator of Care, Counselor and Decision-Maker are advanced and the Level III SLOs of Leader, Collaborator and Advocate are linked to the research process and findings. Students have the opportunity to explore qualitative and quantitative designs, epidemiology and biostatistics, and are introduced to international nursing studies (3 semester hours lecture). Pre-requisites: Nursing 501 and 502, or departmental permission. Co-requisite: Nursing 503. Each stated prerequisite must be completed with a grade of C or better. Cross listed with Nursing 450.

3 semester hours

514 Leading and Managing in the Health Care System (RN-BSN).

Applying the concepts of leadership and management to enhance the quality of health care, this clinical course provides the student with an opportunity to advance the Level I and II SLOs of Caregiver, Communicator, Teacher, Coordinator of Care, Counselor and Decision-Maker while implementing Level III SLOs of Leader, Collaborator and Advocate. The student will develop, implement and evaluate a planned change project in a health care setting to improve the delivery of nursing care. As the capstone clinical course, the student will submit the Professional Portfolio (2 semester hours clinical). Prerequisites: Nursing 504 and 505. Co-requisite: Nursing 506 or departmental permission. Each stated prerequisite must be completed with a grade of C or better.

2 semester hours

Philosophy (PHIL)

190 Introduction to Philosophy.

Introduction to content and process of philosophy. Emphasis on terminology, traditional problem areas, concepts, themes and ideas. Development of skill in reading and analyzing philosophical material.

3 semester hours

290 Applied Logic.

Creative and critical thinking and problem solving based on the paradigm of the scientific method. Types of syllogisms, propositions, basic statistical procedures, value judgments, analyses.

3 semester hours

310 Ethics.

An examination of the nature of ethics, ethical disagreement, formal ethical theories and perennial topics in ethics (liberty, law, justice, rights). Reading and discussion, plus application of formal principles to case study situations to stress use of theory in practical situations.

3 semester hours

320 Philosophy of Religion.

Reading, writing and discussion focusing on problems within the philosophy of religion. Topics such as the nature of religious experience, the existence of God, the problem of evil, the place of reason in the life of faith. (Cross listed with Religion 320.) Prerequisite: Sophomore level or above; Philosophy 190 strongly recommended.

3 semester hours

340 Environmental Ethics

An examination of the nature of ethics, ethical theories, and the application of theory to perennial topics in environmental ethics. In addition to reading and discussion, includes examination of case-studies, lectures by outside speakers, and a fieldtrip.

3 semester hours

390 Special Topics in Religion and Philosophy.

Selected and varying subjects, presenting the opportunity for detailed examination of a topic. Titles under consideration include: Literature and Religion; Contemporary Religious Movements; The Philosophy of Science. (Cross listed with Religion 390.) Not open to freshmen. Prerequisites stated at time of offering.

3 semester hours

391 Ethical Perspectives on Health Related Issues.

An examination of some of the major ethical issues involved in the practice of medicine, medical research and health care policy. (Cross listed with Religion 391.) Prerequisite: Sophomore level or above.
3 semester hours

Physical Education (PHED)

190 Introduction to Swimming.

A course designed to include beginner's skills and advanced beginner's skills outlined by the American Red Cross to enable the student to become more proficient in water and to obtain knowledge of personal safety. Also designed to prepare the student for an intermediate swimming course.

1 semester hour

200 Philosophy and Orientation in Physical Education and Recreation.

Orientation to the roles of physical education and recreation to the total life-long process of education and leisure in our society with emphasis on history, philosophy, program development, school-community relations and career opportunities. (Cross listed with Recreation 200.)

3 semester hours

211 Intermediate Swimming.

For those who have completed beginning level or demonstrate an effective front crawl, back crawl, side, elementary back and breast strokes. Prerequisite: Physical Education 190 or WPI.

1 semester hour

212 Advanced Swimming.

For those who have completed intermediate level or demonstrate effective front crawl, side, back crawl and breast strokes. Prerequisite: Physical Education 211 or WPI.

1 semester hour

220 Elementary Physical Education.

Program for the elementary school child: movement education, motor exploration, motor learning, basic movement skills, rhythms, sports skills and related games. Prerequisite: Education 270 and 290.

2 semester hours

232 Volleyball

Coeducational.

1 semester hour

233 Basketball

Coeducational.

1 semester hour

236 Baseball.

1 semester hour

242 Softball.

1 semester hour

244 Soccer

Coeducational.

1 semester hour

251 Theory and Practice in Team Sports.

A course designed from a teacher training perspective to include methodology, strategy, evaluation, level of instruction and performance skills in team sports.

3 semester hours

252 Theory and Practice in Individual Sports.

A course designed from a teacher training perspective to include methodology, strategy, evaluation, level of instruction and performance skills in individual sports.

3 semester hours

263 Bowling.

1 semester hour

264 Archery.

1 semester hour

265 Golf.

1 semester hour

266 Tennis.

1 semester hour

267 Recreational Sports.

Badminton, table tennis, shuffleboard, handball, etc.

1 semester hour

268 Coed Weight Training.

- 1 semester hour
- 269 Skiing.**
1 semester hour
- 270 Personal Wellness/Fitness.**
The course will provide students with opportunities to develop an individual optimal level of physical fitness, acquire knowledge of physical fitness concepts, and understand the significance of life style to one's health and fitness.
1 semester hour
- 274 Bow Hunting.**
1 semester hour
- 277 Advanced Recreational Sports.**
1 semester hour
- 278 Advanced Coed Weight Training.**
1 semester hour
- 280 Coaching Theory, Tactics and Officiating.**
Rules, techniques, and laboratory experiences in the coaching and officiating of major team sports.
3 semester hours
- 281 Square and Folk Dancing.**
Materials, instruction, teaching, and calling.
1 semester hour
- 283 Get Fit**
A course designed to promote lifetime fitness behaviors for the well-being of the individual. The class is designed for students to achieve higher levels of fitness performance utilizing a variety of equipment and fundamentals of aerobic activity.
1 semester hour
- 305 Kinesiology/Biomechanics.**
Principles of the mechanics of bodily movement in relation to anatomical structure and application of these principles to effective motor learning. Prerequisite: Biology 271.
3 semester hours
- 315 Physiology of Exercise.**
Analysis of physiological changes which occur in the body during muscular activity. Prerequisite: Biology 271/273.
3 semester hours
- 325 Adapted Physical Education/Recreation.**
The interdisciplinary approach to adapted physical education and recreation will be explored with emphasis on the psychological, social and leisure aspects of exceptional individuals. Students will apply concepts gained by working with exceptional individuals in school, hospital and/or rehabilitation center. (Cross listed with Recreation 325.)
3 semester hours
- 335 Safety Education and First Aid.**
History of the safety movement principles and philosophy of safety. Theory and practice in techniques of first aid and emergency care. American Red Cross standard and advanced certification for qualifying students.
2 semester hours
- 350 Assisting in Physical Education.**
Directed experiences in class organization, techniques and procedures, use of equipment and facilities, testing and evaluation. Prerequisite: WPI.
1 semester hour
- 360 Psychological and Sociological Principles of Physical Education.**
The psychological and sociological perspectives relative to the scientific foundations of physical education. Prerequisite: Physical Education 200.
3 semester hours
- 371 Lifeguarding.**
Complete American Red Cross Lifeguarding Certification course that includes Waterfront Lifeguarding, CPR for the Professional Rescuer, Head Lifeguarding, and First Aid.
3 semester hours
- 400 Organization, Administration and Management.**
Functions and processes in the organization, administration and management of the physical education program. The course deals in skills associated with leadership, decision making, communication, time management, staffing, budgets and legal concerns. Prerequisite: Physical Education 200 and 360.
3 semester hours
- 420 Tests and Measurements in Physical Education.**

To introduce the student to the fundamentals of measurement and evaluation in the field of physical education. This course is designed to help students understand essential statistical techniques, relevant measurement theory, and available tests utilized in the evaluation process.

3 semester hours

500 Internship in Athletic Coaching.

To give the student an opportunity to work with an established coach and to gain experience in all aspects of an athletic coaching career.

SPECIAL TOPICS in this area (identified by the course number 390) may become available in certain semesters.

INDIVIDUAL STUDIES which may be either Guided (identified by the course number 560 or 570) or Independent (numbered 600 or 650) may be scheduled with special permission.

Physics (PHYS)

211 Introduction to Physics.

A course designed to introduce the way in which matter and energy behave in the physical universe. Topics include force, energy, momentum, heat, electricity, light and nuclear energy. A weekly laboratory will reinforce the lecture topics. Prerequisite: Grade of C or better in Mathematics 110 or 113 or 141 or WPI.

4 semester hours

221 General Physics I.

A course designed to provide the science student with knowledge of and an appreciation for the nature of matter and energy and the relationship between them. Topics include forces, work, energy, heat, sound and their applications. A weekly laboratory will reinforce the lecture topics. Prerequisite: Grade of C or better in Mathematics 141 or WPI.

4 semester hours

222 General Physics II.

Continuation of Physics 221 to other areas of the physical universe. Topics include magnetism, electricity, light and nuclear energy. A weekly laboratory will reinforce lecture topics. Prerequisite: Grade of C or better in Physics 221.

4 semester hours

390 Special Topics in Physics.

Possible offering on topics not listed as regular offerings. Prerequisites and semester hour credit dependent on the topic offered.

3-4 semester hours

INDIVIDUAL STUDIES which may be either Guided (identified by the course number 560 or 570) or Independent (numbered 600, 610, or 650) may be scheduled with special permission.

Political Science (POLS)

190 Introduction to Political Science.

Application of political theory to political systems. Systematic study of past and present political processes. Treatment of the character of politics by a study of its fundamental issues.

3 semester hours

200 American National Government.

Structure and function of the American national government. Study of the Constitution, scope of national legislative power, the judiciary, the administrative system and various political forces.

3 semester hours

210 State and Local Government.

Position of the states and cities in the federal system. Features of state constitutions. Functioning processes of major elements of government at state, county, city and other levels.

3 semester hours

250 Introduction to Law and the Judicial Process.

Broad survey of the American legal system. This class introduces students to the American judicial system through an examination of civil procedure, criminal law and procedure, family law, contracts, torts, property, the institutional sources of American law (legislation, administrative agencies, constitutions), ethics and the law, and judicial remedies, among others.

3 semester hours

300 American Political Parties and Electoral Process.

Development, organization, methods and roles of political parties in American political life as viewed in a framework of democratic theory. Prerequisite: Political Science 200.

3 semester hours

310 Constitutional Law.

Development of the United States Constitution. Analysis of factors influencing its formulation and subsequent interpretation: legislative, executive, and judicial powers, civil liberties, due process of law and federalism. Prerequisite: Political Science 200.

3 semester hours

320 Comparative Government.

Comparison of the governments of selected countries, including the United Kingdom, France, Russia, Germany, and China with respect to political heritage and ideology, governmental structure, parties and public opinion, foreign relations and contemporary issues. Also includes the modern development of comparative politics as a process of comparing and analyzing variables. Prerequisite: Political Science 190 or 200.

3 semester hours

330 International Relations and World Politics.

A survey of background and current development in such topics as international law, international organization, and economic development, problems of war, regional arrangements, and unofficial influences in world policy. Prerequisite: Political Science 190 or 200.

3 semester hours

370 American Legal History.

A survey of America's legal history. Primarily, considers those legal cases and decisions that had the greatest influence on American life - those cases that best reveal the interconnection between law and society. Each case and decision will be placed within its social context and the social impact of the decision will also be discussed. (Cross listed with History 370.) Prerequisite: History 200, 210, Political Science 190, 200 or 210.

3 semester hours

390 Special Topics in Political Science.

Selected subjects, varying from offering to offering, presenting the opportunity for a more detailed examination of a topic than is possible in a general course.

3 semester hours

410 United States Diplomatic History.

International relations of the United States. Its rise to world power in the 20th century. (Cross listed with History 410.) Prerequisites: History 160, 200 or 210.

3 semester hours

430 Public Policy.

Study of the formation, implementation and evaluation of American public policies, including analysis of specific policy areas, such as welfare, education, healthcare and crime, among others. Prerequisite: Political Science 200.

3 semester hours

440 Political Ideologies.

Introduces students to the political ideologies (the political creeds and doctrines) that dominated and shaped world politics over the past 200 years. This class is concerned with the origins, central themes and impacts of these basic political ideas. The course will survey how political ideologies brought about change through a survey of the nineteenth-century ideologies of liberalism, conservatism, nationalism and socialism, the twentieth-century juggernauts of communism and fascism, and more contemporary ideologies like ecologism and religious fundamentalism.

3 semester hours

500 Internship in State or Federal Government.

Directed studies in connection with a practicum experience in state or federal government. Forty hours of work weekly, plus readings and/or research to be outlined in advance by the designated faculty coordinator. Off-campus only, in a government-related job in a state or federal capital, arranged by the political science faculty. Prerequisite: WPI. Recommended: Completion of Political Science 210. (Grading Honor, Satisfactory, or Unsatisfactory.)

4 or 6 semester hours

550 Seminar in Political Science.

This course explores important issues in political science from different perspectives within the field and related academic disciplines. Critical thinking, analysis and research skills are required of the student in classroom participation and assignments.

3 semester hours

Psychology (PSYC)

190 General Psychology.

A general overview of the field of psychology designed to provide the non-major with a knowledge and understanding of basic principles in psychology and their applications to human behavior.

3 semester hours

220 Human Development.

- Provides an introduction to the field of life span development, from conception through old age, covering physical, cognitive and psychosocial development. Major theories, issues and trends in the field are reviewed.
3 semester hours
- 230 Human Adjustment.**
Overview of various areas of individual adjustment to life, with an emphasis on the healthy personality and common personal struggle.
3 semester hours
- 260 Statistics and Data Analysis.**
Emphasis on producing and interpreting standard means of presenting summary data and using appropriate statistical procedures. Includes basic parametric and non-parametric statistics as they are applied to data from the behavioral sciences. (Cross listed with Sociology 260.) Prerequisite: Psychology 190 or 200 or Sociology 190 or WPI.
3 semester hours
- 301 Principles of Learning.**
Introduction to the principles of classical and operant conditioning and their application to the understanding, prediction and control of behavior. Includes laboratory projects in conditioning. Prerequisite: Psychology 190 or 200 or 220.
3 semester hours
- 303 Physiological Psychology.**
A systematic and comparative description of the physiological mechanisms that underlie behavior. Biological correlates of selected psychological phenomena will be demonstrated in the laboratory. Prerequisite: Psychology 190 or 200 or 220.
3 semester hours
- 310 History and Systems of Psychology.**
Historical antecedents of contemporary theories. The development of modern scientific psychology from its roots in philosophy, physiology and medicine to its contemporary status. Prerequisite: Psychology 190 or 200 or WPI.
3 semester hours
- 360 Research Methods.**
The course is designed to prepare students for original research in the experimental study of behavior. Critical examination will be given to various research strategies. Students will gain experience in structuring, conducting and interpreting simple psychological experiments; they will learn to use the tools and equipment commonly employed in psychological research and to prepare research reports. Prerequisite: Psychology 260.
3 semester hours
- 390 Special Topics in Psychology.**
Selected subjects, varying from offering to offering, presenting the opportunity for a more detailed examination of a topic than is possible in a general course.
3 semester hours
- 395 Death and Dying.**
This course provides an introduction to and overview of the topics of aging, dying and death in context of the dilemmas posed by medical technology applied at the end of life. Both a historical and multicultural perspective is presented.
3 semester hours
- 400 Social Psychology.**
Human behavior viewed as interaction of the individual with other individuals, groups and with the socio-cultural setting. Prerequisite: Sociology 190, or Psychology 190 or 200.
3 semester hours
- 420 Abnormal Psychology.**
Symptomatology, etiologies and treatment of the major mental disorders. Prerequisite: Psychology 190, 200 or 220.
3 semester hours
- 430 Counseling Theories and Issues.**
Introduction to theories, techniques and issues of counseling.
3 semester hours
- 500 Internship in Psychology.**
Field placement and experience.
3-6 semester hours
- 550 Seminar in Psychology.**
This course explores important psychological issues from different perspectives within the field of psychology and related academic disciplines. Critical thinking, analysis and research skills are required of the student in classroom participation and assignments. The student will design,

conduct and evaluate an individual research project as part of this course. Prerequisite: Psychology 260 and 360.

3 semester hours

INDIVIDUAL STUDIES which may be either Guided (identified by the course number 560 or 570) or Independent (numbered 600 or 650) may be scheduled with special permission.

Radiography (RADI)

390 Special Topics in Radiography.

Selected subjects, varying from offering to offering, presenting the opportunity for a more detailed examination of a topic than is possible in a general course.

2 semester hours

500 Clinical Experience.

A student holding a valid registry may elect to increase his/her x-ray experiences in the field by being placed under the supervision of a Radiologist to upgrade or expand clinical skills capabilities.

2-6 semester hours

Reading (READ)

100 Reading for College Success.

This course will give the student an opportunity to study the reading process and learn how to apply effective strategies to improve reading comprehension, speed and vocabulary.

2 semester hours

220 Children's Media.

Principles of evaluating, selecting and using a variety of reading and media materials with children. Attention to the oral interpretation of traditional literature and modern classics and involving K-6 students in activities related to good literature. Prerequisite or concurrent: Education 270.

3 semester hours

240 Media for Young People.

A study of the literature and non-print media written for the middle and high school student. Will cover criteria for selection, evaluation, the use of the materials and current issues. Prerequisite: Education 270.

3 semester hours

300 Reading in the Secondary Schools.

Study of reading, thinking, study and location skills essential at middle and high school levels, and assessment techniques, technology, lesson and unit development in content area. Laboratory experience in public schools of at least 20 hours. Prerequisites: Education 270 and 290.

2 semester hours

301 Teaching Reading Through General Music Methods.

This course examines the reading process and how it relates to effective reading strategies in the content area of music: methods, materials, and procedures appropriate to the teaching of general music for all grade levels. Concurrent with MUED-311.

3 semester hours

320 Reading in the Elementary School.

A basic course in teaching reading at the elementary level. Gives students who have little or no previous experience in this area an opportunity to study the reading process and learn how to apply effective techniques and methods to elementary teaching of reading. Clinical experiences of at least 20 hours in public schools. Prerequisites: Grade of C or better in Education 270 and 290.

4 semester hours

322 Language Arts in the Elementary School.

A basic course in teaching the language arts at the elementary level that gives students who have little or no previous experience in this area an opportunity to study the relationships among the various areas of language arts and learn how to apply effective techniques and methods to classroom teaching. Clinical experiences of at least 20 hours in the public schools. Prerequisite: Grade of C or better in Reading 320.

4 semester hours

450 Corrective Techniques in Reading Instruction.

Basic course in diagnostic and corrective techniques in reading, especially related to the elementary school. Attention to reading problems and their correction or solution through the use of equipment and materials available to the classroom teacher. Concurrent clinical experience of about 30 hours in public schools with Education 319. Prerequisite: Grade of C or better in Reading 320 and 322.

3 semester hours

Recreation (RECR)

200 Philosophy in Physical Education, Recreation, and Sports Management.

Orientation to the roles of physical education and recreation to the total life-long process of education and leisure in our society with emphasis on history, philosophy, program development, school-community relations and career opportunities. (Cross listed with Physical Education 200.)
3 semester hours

210 Theory and Practice of Recreational Leadership and Sports Management.

Course designed for the purpose of preparing college students for leadership in leisure-time activities. Consideration of issues in organizing and participating in recreational activities.
Prerequisite: Recreation 200.
3 semester hours

220 Society and Leisure.

Examination of the leisure era and its implications and challenge to the field of recreation and relationship to the development and needs of people. Interpretation of recreation as a basic part of the living process. Prerequisite: Recreation 200 or Sociology 190.
3 semester hours

230 Dynamics of Recreational Groups.

Psychology of group interaction. Examination of the social group work method and its application. Social recreation activities in community centers, church groups, playgrounds and camps.
Prerequisite: Recreation 200.
3 semester hours

240 Introduction to Recreational Therapy.

Orientation to the field of recreational therapy as a health-related profession, including its history, philosophy, values and concepts basic to its theory and practice.
3 semester hours

300 Recreation and Sports Camps.

Introduction to organized camping movement: purpose, campsites, equipment, programs, and leadership. Exploration of nature recreation and its relationship to community recreation and camping programs. Prerequisite: Recreation 200. Cross listed with Sport Management.
3 semester hours

310 Administration of the Recreation and Sports Management Program.

General principles of administration; organization of staff administrative procedures. Study of enabling laws, legal responsibilities, surveys, finance, programs, facilities and public relations.
Prerequisite: Recreation 200.
3 semester hours

320 Program Planning in Therapeutic Recreation.

The study of the specialized perspectives, skills and techniques appropriate to recreational programs for such groupings as the physically disabled, mentally impaired and aged within a therapeutic setting.
3 semester hours

325 Adapted Physical Education/Recreation.

The interdisciplinary approach to adapted physical education and recreation will be explored with emphasis on the psychological, social and leisure aspects of exceptional individuals. Students will apply concepts gained by working with exceptional individuals in school, hospital and/or rehabilitation center. (Cross Listed with Physical Education 325.)
3 semester hours

330 Therapeutic Recreation for the Aging.

Incorporates an interdisciplinary approach, and focuses upon the physiological, social and leisure aspects associated with the aging process. It offers a general orientation to the older adult population and provides a field component with opportunity for application in rehabilitative settings.
Prerequisite: Recreation 240.
3 semester hours

350 Assisting in Recreation and Sports Management.

Directed experiences in classes in physical education activities and/or the intramural program of the College. Prerequisite: WPI. Cross listed with Sport Management
1 semester hour

351 Assisting in Event Planning.

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

352 Assisting in Sports Information and Public Relations.

This is the study and appraisal of media and role that it plays in contemporary sports. Attention is also given to preparation and evaluation of sports media presentation and publications. Class will focus on statistical aspects of individual sports. Cross listed with Sport Management

1 semester hour

353 Assisting in Field Management.

To familiarize students with field maintenance operations through field trips, case studies, guest speakers, lecturers, computer applications, and hands-on experience. Written and oral communication skills and critical thinking skills will be emphasized through selected assignments involving written and oral communications, presentations, and spreadsheets. Cross listed with Sport Management

1 semester hour

400 Recreation and Sports Management Program Planning.

Fundamentals for general program planning; considering needs, facilities, age groups, local customs and other pertinent factors. Planning involved in playground management, indoor centers, parks, hospitals, voluntary agencies, camps and industry. Prerequisite: Recreation 200.

3 semester hours

415 Therapeutic Recreational Services for Special Population.

The course is designed to apply the principles and theories of therapeutic recreation with the various special populations in appropriate settings. Students will have a lab, which will consist of a 30-hour placement in a designated agency. Prerequisite: Recreation 500 (Internship) or WPI.

3 semester hours

500 Supervised Field Experience in Recreation.

Supervised recreational leadership field work in public and private recreational programs.

Prerequisite: Recreation 200 and WPI.

6 semester hours

501 Supervised Field Experience in Therapeutic Recreation.

Supervised field work in a setting providing therapeutic recreational programs to exceptional groups. Prerequisite: Recreation 240 and WPI.

6 semester hours

INDIVIDUAL STUDIES which may be either Guided (identified by the course number 560 or 570) or Independent (numbered 600 or 650) may be scheduled with special permission.

Religion (RELG)

280 Religions of the World.

Origin, historical development, central theological, philosophical and ethical perspectives, as well as critical comparison of the major religions of humankind.

3 semester hours

290 Introduction to the Old Testament.

Literary and historical examination of portions of the Old Testament. Formation of the Pentateuch, the rise of the literary prophets and the development of Judaism.

3 semester hours

295 Introduction to the New Testament.

Literary and historical examination of portions of the New Testament. Attention to the synoptic gospels, Johannine writings and the Pauline epistles.

3 semester hours

300 Mentoring Practicum.

Provides formal academic context in which to explore issues in ministry and to observe or participate in ministry activities with an assigned mentor. Christian Studies majors. May be repeated for credit. Prerequisites: Religion 290 and 295 or WPI; sophomore level or above.

1-2 semester hours

301 Hospice Field Education.

Observation of and interaction with patients under the care of Mountain Hospice in Barbour County, with field supervision by the Hospice Chaplain.

3 semester hours.

320 Philosophy of Religion.

Reading, writing and discussion focusing on the problems within the philosophy of religion. Topics include the nature of religious experience, the existence of God, the problem of evil, the place of reason in the life of faith. (Cross listed with Philosophy 320.) Prerequisite: Sophomore level or above; Philosophy 190 strongly recommended.

3 semester hours

323 Pastoral Care.

Study, examination, and analysis of the theology and practical application of pastoral care, all within the framework of pastoral theology and ministry. In particular, examination of aspects of pastoral care as it pertains to worship and crisis ministry. Includes examination and analysis of the place of self-identity for pastoral care.
3 semester hours.

325 Christian Theology.

Study of the origin, nature, methodology and themes of Christian theology with special reference to the doctrines of God, Christ, the Church and humanity, as well as an exploration of the relationship of theology to creed. Prerequisite: Religion 295; sophomore level or above.
3 semester hours

330 Renaissance and Reformation.

Study of the rise and spread of humanism, the emergence of individualism, the stimulation of art and literature, the decline of the Universal Church and the formation of national churches, and the Protestant Reformation. (Cross listed with History 330.) Prerequisite: History 150 or WPI.
3 semester hours

332 Introduction to Christian Ministry.

Study of significant theologies of ministry to understand the nature of this aspect of Christian life and work. Attention also to practical and basic forms of ministry such as worship, preaching, teaching, pastoral care. Prerequisite: Religion 295; sophomore level or above.
3 semester hours

333 Introduction to Preaching/Teaching Ministry.

Introduction to the principles and practice of teaching and preaching, including exegesis/interpretation, preparation, form, delivery and evaluation. Emphasis on homiletic and pedagogic theory and skills necessary for proficiency in youth ministry.
3 semester hours.

334 Introduction to Youth Ministry.

Introduction to youth ministry through examination of contemporary culture, theological concepts, practical necessities, and spiritual formation, as each applies to the practice of youth ministry.
3 semester hours

335 Christian Worship and Spirituality.

Study of the practice of Christian worship through exploration of the Biblical foundations of worship, a Biblical theology of worship and a brief history of worship, as well as observation of and participation in worship experiences. Also includes examination of Christian spirituality as it relates to worship. Intended to be both a theoretical examination and a practical exploration of worship. Prerequisite: Religion 295; sophomore level or above.
3 semester hours

350 Christian Service Practicum.

Opportunities for students to engage in meaningful service to others that also helps them develop as responsible citizens in a global society. Service examined from the perspective of the Christian values of compassion and justice, with parallel ideas in other religions and in humanistic thought also included. Focus on development of skills and behaviors necessary for service and responsible citizenship, including critical reflection on the way values affect judgment and choices.
3 semester hours

360 The Christian Church Through the Ages.

History and development of the Christian church from the apostolic period to the modern ecumenical movement. (Cross listed with History 360.) Prerequisites: History 150 and 160, or WPI.
3 semester hours

390 Special Topics in Religion and Philosophy.

Selected and varying subjects, presenting the opportunity for a detailed examination of a topic. Titles under consideration for the period include: Literature and Religion, Contemporary Religious Movements, The Philosophy of Science. (Cross listed with Philosophy 390.) Not open to freshmen. Prerequisites stated at time of offering.
3 semester hours

391 Ethical Perspectives on Health-Related Issues.

An examination of some of the major ethical issues involved in the practice of medicine, medical research; and health care policy. (Cross listed with as Philosophy 391). Prerequisite: Sophomore level or above.
3 semester hours

400 Topics in Biblical Studies.

Detailed examination of selected portions of the Bible, varying from offering to offering. Among possible topics are the Old Testament Prophets, the Life and Letters of Paul, and the Gospels. May be repeated for credit. Prerequisites: Religion 290 and 295 or WPI; sophomore level or above.

3 semester hours

INDIVIDUAL STUDIES which may be either Guided (identified by the course number 560 or 570) or Independent (numbered 600 or 650) may be scheduled with special permission.

Sociology (SOCI)

190 Introduction to Sociology.

Society and culture, including analysis of social interaction, personality, social institutions, communities and social change.

3 semester hours

210 The Family.

Analysis of the family as a social institution. The historical antecedents and contemporary problems of dating, courtship, marriage, marital adjustment and rearing a family. Prerequisite: Sociology 190.

3 semester hours

230 Appalachian Studies.

Study of the Appalachian region (with emphasis on West Virginia) from historical, economic, political, social and cultural perspectives. Included are such topics as population, poverty, folk arts and crafts and the impact of social change on rural culture.

3 semester hours

240 Social Problems.

The personal and social processes involved in deviation from the norms of society and in social disorganization. Prerequisite: Sociology 190.

3 semester hours

310 Social Gerontology.

The study of aging in social context including theories on physical and psychological aging, personal adaptation, societal responses and policy making. Prerequisite: Sociology 190.

3 semester hours

320 Minorities.

Racial and cultural minorities in the United States. The nature of prejudice and discrimination, and the processes and rates of assimilation. Prerequisite: Sociology 190.

3 semester hours

350 Criminology.

Classifications and theories of crime and criminal behavior. Methods of treating the criminal. The youthful offender, criminal courts and penology. Prerequisite: Sociology 190.

3 semester hours

390 Special Topics in Sociology.

Selected subjects, varying from offering to offering, presenting the opportunity for a more detailed examination of a topic than is possible in a general course.

3 semester hours

Spanish (SPAN)

110 Elementary Spanish I.

Introductory language study focusing on the development of communicative competency. Emphasis on listening, speaking, reading, writing and culture. Lab work required.

3 semester hours

111 Elementary Spanish II.

Continuation of language study with slight emphasis on listening and speaking skills. Lab work required. Prerequisite: Grade of C or better in Spanish 110.

3 semester hours

220 Intermediate Spanish I.

Comprehensive continuation of four-skill study of Spanish language and culture. Lab work and oral presentation required. Most of class conducted in Spanish. Prerequisite: Grade of C or better in Spanish 111.

3 semester hours

221 Intermediate Spanish II.

Continued study of the four language skills and culture. Lab work and oral presentation required. Class conducted in Spanish. Prerequisite: Grade of C or better in Spanish 220.

220.

3 semester hours

390 Special Topics in Spanish.

Topics may include Medical Spanish, Business Spanish, and Conversational Spanish.

3 semester hours

INDIVIDUAL STUDIES which may be either Guided (identified by the course number 560 or 570) or Independent (numbered 600 or 650) may be scheduled with special permission.

Special Education (SPED)

200 Areas of Exceptionality in Special Education.

This course is designed as a guided survey special course for all education majors of the area of disability in the field of Special Education. In addition, there will be an exploration into the historical/philosophical/political/ sociological foundations as they relate to exceptional children. There will be a ten-hour laboratory experience in public schools. (20 hours for those seeking a special education endorsement.) Prerequisite: Education 200 or WPI.

3 semester hours

290 Introduction to Specific Learning Disabilities.

Surveys course designed to provide information concerning (1) the historical development of educating students with learning disabilities, (2) the etiology of learning disabilities, (3) characteristics and implications for amelioration, and (4) instructional strategies, curriculum development, programming and collaboration. A 20-hour practicum is a required part of the course. Prerequisite: Special Education 200 or WPI.

3 semester hours

300 Education of the Mentally Impaired.

The course is designed to provide a comprehensive overview of mental retardation including: (1) historical/legal foundations, (2) assessment, definitional and etiological issues, (3) learner characteristics, (4) educational programming, curriculum planning, instructional strategies and issues across the life-span, including school-to-work and transitional planning for independent adult living, and (5) ethical/professional concerns and emerging trends. Emphasis is placed on individuals who experience mild to moderate mental retardation. A 20-hour practicum is a required part of the course. Prerequisite: Special Education 200 or WPI.

3 semester hours

310 Assessment in Special Education.

The course is designed for special education majors, as a general introduction to the issues and practices regarding the assessment of individuals with disabilities. Emphasis is given to data collection procedures, technical adequacy of tests, assessment of various handicapping conditions, types of tests, as well as appropriate placement options for the handicapped child. Prerequisite: Special Education 200.

3 semester hours

320 Introduction to Behavior Disorders/Severe Emotional Disturbance.

This course is an introductory course in special education for children and youth with emotional and behavior disorders. Included in the course will be: 1) the historical development of educating students with behavior disorders, 2) etiology of behavior disorders, 3) types and characteristics of behavior disorders, and implications for amelioration, and 4) assessment, instructional practices, treatment options, programming and collaboration. A 20-hour field placement required.

Prerequisite: Special Education 200 or WPI.

3 semester hours

330 Behavior Management.

Includes predominantly behavioral and cognitive behavior management strategies for increasing and reducing behavior, and the use of single subject designs for managing treatment interventions. Other theoretical models of human behavior and classroom management, including the social systems, environmental, psychodynamic, psycho-educational and constructivist models will also be addressed. Attention is directed toward interventions of specific behavioral challenges including: social competence, aggressive behavior, disruptive behavior, noncompliance, temper tantrums, impulsivity, inattention, hyperactivity and stereotypic behavior. The course will also examine issues in early childhood behavior, adolescent behavior and the effects of cultural influences on behavior. The course will utilize a case study approach and will include a 10-hour field placement in a special education or inclusive general class. Prerequisite: Special Education 200, Education 270, or WPI.

3 semester hours

340 Creating Inclusive Classrooms: Strategies for Classroom Teachers.

This is a methods-level course designed to assist future teachers in providing appropriate learning environments, behavior management and consultation, and services for all students served in inclusive classroom settings. Although primary emphasis is directed toward educating students with identified disabilities, the course uses a cross-cultural orientation that provides the beginning teacher with strategies for providing effective classroom instruction for all students. Prerequisite: Special Education 200 and Education 290, or WPI, and at least junior standing.

3 semester hours

341 Special Learners in the General Music Classroom .

This is a methods-level course designed to assist future teachers in providing appropriate learning environments, behavior management and consultation, and services for all students served in inclusive classroom settings. Although primary emphasis is directed toward educating students with identified mental disabilities, this course uses a cross-cultural orientation that provides the beginning teacher with strategies or providing effective classroom instruction for all students.

Prerequisite: Special Education 200, and Education 290 or WPI, Concurrent with MUED 310, and at least junior standing 1 semester hour.

1 semester hour

342 Special Learners in the Choral Music Classroom.

This is a methods-level course designed to assist future teachers in providing appropriate learning environments, behavior management and consultation, and services for all students served in inclusive classroom settings. Although primary emphasis is directed toward educating students with identified mental disabilities, this course uses a cross-cultural orientation that provides the beginning teacher with strategies or providing effective classroom instruction for all students.

Prerequisite: Special Education 200, and Education 290 or WPI, Concurrent with MUED 320, and at least junior standing

1 semester hour.

343 Special Learners in the Instrumental Music Classroom.

This is a methods-level course designed to assist future teachers in providing appropriate learning environments, behavior management and consultation, and services for all students served in inclusive classroom settings. Although primary emphasis is directed toward educating students with identified mental disabilities, this course uses a cross-cultural orientation that provides the beginning teacher with strategies or providing effective classroom instruction for all students.

Prerequisite: Special Education 200, and Education 290 or WPI, Concurrent with MUED 330, and at least junior standing.

1 semester hour.

350 Instructional Strategies for Mild/Moderate Disabilities.

This course involves remedial and teaching techniques commonly associated with special education. Includes behavioral technology as it relates to methods, how to use specific approaches, and how to modify existing curriculum to special needs of individuals. An introduction to self-management strategies is also provided. A 20-hour practicum is a required part of the course. Prerequisite: Special Education 310 or WPI.

3 semester hours

400 Advanced Practicum in Special Education.

This course is designed to provide students with a supervised Special Education field experience. The practicum ensures that in addition to teaching, students will gain the experience and skills that are unique to the Special Education Profession. This field experience will involve conducting assessments of education functioning, IEP development, curriculum and classroom design, collaboration skill, instructional strategies and the evaluation of instruction on analysis of student performance data. When and where appropriate, this field experience will also focus on providing support for exceptional students who participate in "inclusive" programs. Taken as at least a 40-hour field experience in junior year.

3 Semester Hours

Sport Management (SPMT)**200 Introduction to Sport Management.**

This course discusses the meaning of sport management in terms of its scope, principles, issues and future trends. In addition, this course examines the job responsibilities and competencies required of sport managers in a variety of sports or sports-related organizations in a hope to have the student become acquainted with the role of sport administrators and managers. Finally, this course provides the student with an overview of the different facets and career opportunities that are available in the field of sport management.

3 Semester Hours

250 Legal Aspects and Liability in Sport and Recreation.

The course will enhance the student's knowledge of legal issues commonly faced by coaches, both on and off the field. The student will be able to utilize this knowledge in day-to-day situations faced by amateur and professional coaches, and to develop a basic understanding of the law. Fundamentals of the areas of the law that affect sports and that are affected by sports will also be covered. Tort law, criminal law, contract law, and constitutional law are explored as well as Title IX and the Civil Rights Act of 1994 on sport law.

3 Semester Hours

300 Recreation and Sports Camps.

Introduction to organized camping movement: purpose, campsites, equipment, programs, and leadership. Exploration of nature recreation and its relationship to community recreation and camping programs. Prerequisite: Recreation 200. Cross listed with Recreation.
3 semester hours

350 Assisting in Recreation and Sports Management.

Directed experiences in classes in physical education activities and/or the intramural program of the College. Prerequisite: WPI. Cross listed with Recreation 351
1 semester hour

351 Assisting in Event Planning.

This course introduces students to special event planning processes and techniques. Emphasis is on creating, organizing, identifying sponsors, marketing and implementing community events. Cross listed with Recreation
1 semester hour

352 Assisting in Sports Information and Public Relations.

This is the study and appraisal of media and role that it plays in contemporary sports. Attention is also given to preparation and evaluation of sports media presentation and publications. Class will focus on statistical aspects of individual sports. Cross listed with Recreation 352
1 semester hour

353 Assisting in Field Management.

To familiarize students with field maintenance operations through field trips, case studies, guest speakers, lecturers, computer applications, and hands-on experience. Written and oral communication skills and critical thinking skills will be emphasized through selected assignments involving written and oral communications, presentations, and spreadsheets. Cross listed with Recreation 353
1 semester hour

500 Supervised Field Experience in Recreation.

Supervised recreational leadership field work in public and private recreational programs. Prerequisite: Recreation 200 and WPI. Cross listed with Recreation 500
6 semester hours