***Note required information:*** *Program or certificate changes require a change to the catalog page. All change of program or certificate proposals must include the new catalog page, with all proposed changes, at the end of this document. All changes that affect the courses, words, numbers, symbols, program description, admissions requirements, and graduation requirements as presented in the 2013-2014 catalog must be documented. Note before completing this proposal that all new courses and current prerequisite, corequisite, core, or elective courses changes must have already been reviewed (or submitted for the same meeting) by the Curriculum Committee and approved by the Provost and Vice President of Academic Affairs. The Track Changes feature in Word must be used to illustrate all changes to the catalog page.*

|  |  |
| --- | --- |
| **School or Division** | School of Education |
| **Program or Certificate** | BS, Secondary Biology Education |
| **Proposed by (faculty only)** | Dr. Anne Angstrom |
| **Presenter (faculty only)** | Dr. Anne Angstrom |
| Note that the presenter (faculty) listed above must be present at the Curriculum Committee meeting or the proposal will be returned to the School or Division and be resubmitted for a later date. |
| **Submission date** | 11/7/2014 |

**Section I, Proposed Changes**

|  |  |
| --- | --- |
| **Change of School, Division, or Department** |  |
| **Change to program or certificate name** |  |
| **List below, any changes to the program or certificate prerequisites. Include course titles and credits if applicable.** |
|  |
| **List below, any changes to the General Education requirements. Include course titles and credits if applicable.** |
|  |
| **List below, any changes to the program or certificate Core requirements. Include course titles and credits if applicable.** |
| Delete ISC 3120, Scientific Process, 3 credits, as a program requirement for the BS in Secondary Biology Education and replace with ISC 1002c, Foundations of Interdisciplinary Science II, 3 credits. |
| **List below, any changes to the program or certificate Elective requirements. Include course titles and credits if applicable.** |
|  |
| **List below, any other changes to the program or certificate requirements.**  |
|  |
| **Change to program length (credits or clock hours to complete)** | From: To: |

**Section II, Justification for proposal**

|  |
| --- |
| **Provide justification (below) for each change on this proposed curriculum action**  |
| Teacher candidates in the Middle Grades Science and Secondary Biology programs in the School of Education are currently required to take ISC 3120, Scientific Process, as a program requirement. The course has been offered and taken at Florida Gulf Coast University.  The objectives of ISC 3120 include the introduction to the scientific method, research design, and the role of science in society through discussion and debate.  Based on our students’ recent experiences in the course at FGCU and as revealed through syllabi posted to the Web, a primary objective of the course is teaching students the process for conducting formal research, including the preparation of grant proposals. Given the new Florida Standards for K-12 students and the learning outcomes for teacher candidates assessed by the Florida Teacher Certification Examinations for Middle Grades Science, Grades 5-9, and Secondary Biology, Grades 9-12, it is proposed that ISC 1002C, Foundations of Interdisciplinary Science II, be added to the program requirements, thereby eliminating the need for ISC 3120. It is also important to note that FGCU science education students are no longer required to take ISC 3120.ISC 1002C, which is offered here at Florida SouthWestern State College, would still reinforce the concepts associated with the scientific method and experimental design while also expanding on the content-area knowledge needed by both middle grades and secondary science educators.  With a focus on experiments on the topics of energy, chemistry, and environmental biology, our teacher candidates would not only have the opportunity to grow in their subject-area expertise, but participate in educational opportunities that could be modified to share in their own classroom teaching experiences.  In addition, competencies in the areas of energy, the structure and behavior of matter, life processes, diversity of animals, and the interactions of science, technology, and society have been shown to be areas of weakness for candidates that have not succeeded in passing the Florida Teacher Certification Examinations for Middle Grades Science Education, Grades 5-9, and Secondary Biology, Grades 9-12. The topics included in the ISC 1002C course offer a better alignment with those areas and will serve as an excellent opportunity to revisit and reinforce those concepts prior to taking those subject-area examinations.  |

**Section III, Important Dates and Endorsements Required**

|  |
| --- |
| **List all faculty endorsements below. (Note that proposals will be returned to the School or Division if faculty endorsements are not provided).** |
| Professor Kelly Buck, Adjunct Faculty for Science Education, School of Education; Dr. Jay Koepke, Biology;Professor Tina Ottman, Biology |

**nOTE:** Changes for the Fall 2015 term must be submitted to the Dropbox by the January 3, 2015 deadline and approved no later than the February 28, 2015 Curriculum Committee meeting. Changes during mid-school year are NOT permitted. Extreme circumstances will require approval from the appropriate Dean or Assistant Vice President as well as the Provost and Vice President of Academic Affairs to begin in either the Spring 2015 or Summer 2015 term.

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| --- | --- |
| **Term in which approved action will take place** | Fall 2015 |

|  |  |  |
| --- | --- | --- |
| **Required Endorsements** | **Type in Name** | **Select Date** |
| **Department Chair or Program Coordinator** | Dr. Anne Angstrom | 11/6/2014 |
| **Academic Dean or Assistant Vice President** | Dr. Erin Harrel | 11/7/2014 |
| **Dean’s Council Representative** | Dr. Mary Myers | 1/6/2015 |

|  |  |
| --- | --- |
| **Select Curriculum Committee Meeting Date** | January 23, 2015 |

Completed curriculum proposals must be uploaded to Dropbox by the deadline. Please refer to the *Curriculum Committee Critical Dates for Submission of Proposals* document available in the document manager in the FSW Portal:

* Document Manager
* VP Academic Affairs
* Curriculum Process Documents

**Important Note to Faculty, Department Chairs or Program Coordinators, and Deans or an Assistant Vice President:**

Incomplete proposals or proposals requiring corrections will be returned to the School or Division. If a proposal is incomplete or requires multiple corrections, the proposal will need to be completed or corrected and **resubmitted to the Dropbox for the next Curriculum Committee meeting** (no later than January 3, 2015 to be effective for the Fall 2015 term). All Curriculum proposals require approval of the Provost and Vice President of Academic Affairs. Final approval or denial of a proposal is reflected on the completed and signed Summary Report.

***Include complete new catalog page below. A separate document will not be accepted.***

**Secondary Biology Education, BS**

The Bachelor of Science (BS) in Secondary Biology Education program is designed to prepare individuals to teach biology grades 6-12 (middle and high school). The program provides an educational pathway for students who have earned an Associate in Arts degree to include specific science and education prerequisites. Upon graduation, students will meet the mandated state teaching requirements, for certification in Secondary Biology Education.

**Program Highlights:**

The BS in Secondary Biology Education program includes courses in teaching students with English as a second language, students with exceptionalities, reading competency, classroom management, assessment, and integrated approaches to teaching methodologies at the middle and high school levels. Field experience requirements are progressive in nature, building upon previous semester experiences. Students will observe teachers in the field, teach lessons through the practicum courses, and complete a full-time teaching internship in their final semester. Courses are offered for full and part time students, with blended technology components where applicable.

**Admission Requirements:**

In addition to fulfilling the entrance requirements for Florida SouthWestern State College, applicants for the BS in Secondary Biology Education degree program must meet the following requirements consistent with Florida Statute 1004.04:

1. Completion of the Associate in Arts (AA) degree, or the equivalent, including all General Education Core Requirements and required Florida mandated common course program prerequisites. Students with a minimum of 60 transferable hours, with all General Education requirements and prerequisites met, may apply for admission.
2. Completion of the lower-division education prerequisite courses: EDF 2005 - Introduction to the Teaching Profession, EDF 2085 - Introduction to Diversity for Educators- (I), and EME 2040 - Introduction to Technology for Educators, with grades of “C” or higher.
3. Completion of [(BSC X010/X010L & BSC X011/X011L) **AND** (BSC X010C & BSC X011C)] **AND** [(CHM X045/X045L & CHM X046/X046L) **OR** (PHY X053/X053L & PHY X054/X054L) **OR** (CHM X045C & CHM X046C) **OR** (PHY X048C & PHY X049C) **OR** (PHY X053C & PHY X054C)] **AND** (MAC X311 or MAC X241).
4. Applicants must have a grade point average of at least 2.5 on a 4.0 scale for the General Education component of undergraduate studies or have completed the requirements for a baccalaureate degree with a minimum grade point average of 2.5 on a 4.0 scale from any college or university accredited by a regional accrediting association, as defined by State Board of Education rule, with a minimum of 60 credit hours.
5. Demonstrated mastery of general knowledge, including the ability to read, write, and compute, by passing the General Knowledge Test of the Florida Teacher Certification Examination.
6. Applicants not meeting stated admissions criteria may petition for program admittance if they feel that there are mitigating circumstances. Applicants must submit an official petition form to the School of Education (forms are available online at [www.fsw.edu/soe/resources/forms/Appeal%20Form.pdf](http://www.fsw.edu/soe/resources/forms/Appeal%20Form.pdf)).

**Requirements to Enroll in Upper Division Courses:**

1. Upon admission to the BS program, students must attend a mandatory orientation session prior to enrollment in upper division (3000 and 4000 level) courses.
2. Students must disclose background information that may preclude them from becoming certified at the time of admission.  For continued enrollment in the program, students must be fingerprinted and screened by the Florida Department of Law Enforcements and the FBI prior to entering any school.
3. Prior to enrollment in any upper division courses, students must complete ENC 1101 Composition I, ENC 1102 Composition II and one general education math course.
4. To be eligible to enroll in SCE 4940 - Internship in Secondary Education with Biology Emphasis, students must have passed all sections of the General Knowledge Test, the Professional Educator’s Exam, and the Subject Area Exam.
5. Cross-enrollment approval: Baccalaureate degree seeking students must obtain prior approval to cross enroll (as a transient student) in courses intended to fulfill upper division program requirements. Approval will be determined by the appropriate dean in collaboration with program faculty. Students initiate this process using [www.flvc.org/](http://www.flvc.org/).
6. Upper Division Transfer Course Review: Students who have completed previous upper division coursework in an Education Program may present those courses for evaluation by the Discipline Chair for Education. In some cases, students may be required to submit portfolio icons or assignments to demonstrate competency in the required Florida Educator Accomplished Practices, reading or ESOL standards.  The student is urged to provide the Discipline Chair for Education with corresponding syllabi, samples of student work, and textbook/assignment information related to each upper division course. Students may transfer equivalent courses as determined by the State Common Course Numbering System. However, Florida SouthWestern State College reserves the right to deny common course number credit for courses in which practicum or internship components reside.  Students must fulfill all required competencies, standards, skills and dispositions within the Bachelor of Science in Education Programs and may be required to submit additional documentation to support completion requirements.

The Florida SouthWestern State College Registrar’s Office will ensure that previous coursework meets all relevant academic standards before acceptance for transfer. The Dean of the School of Education and the Education Admissions Committee will ensure adherence to the above admissions criteria.

1. In addition to adherence to the Florida SouthWestern State College *Student Code of Conduct (*Student Rights and Responsibilities*)*, policies, and procedures, teacher candidates must adhere to disposition policies, unit policies, and procedures as published in the *School of Education Student Handbook*.

**Priority Application Deadlines:**

Fall term - August 1; Spring term - December 1; Summer term - April 1

**Degree Requirements: 120 Hours**

**General Education Core Requirements: minimum of 36 credit hours**

**Communication- 9 credit hours**

ENC 1101 - Composition I -- 3 credits

ENC 1102 - Composition II -- 3 credits

and

(SPC 1017 - Fundamentals of Speech Communication -- 3 credits

**OR**

SPC 2608 - Introduction to Public Speaking 3 credits)

**Humanities- 6 credit hours** (refer to the Associate in Arts Degree General Education Program Guide, AA)

One HUM writing intensive course (Part A)

One additional humanities course

**Social Sciences- 9 credit hours** (refer to the Associate in Arts Degree General Education Program Guide, AA)

One WOH writing intensive course (Part A)

(PSY 2012 - General Psychology I -- 3 credits

**OR**

DEP 2004 - Human Growth and Development -- 3 credits)

One additional social sciences course

**Mathematics- 6 credit hours** –

[(MAC 1105, MAC 1114 & MAC 1140) **OR** (MAC 1105 & MAC 1147) recommended; refer to prerequisites for MAC 2311]

\*(**see “Required State Mandated Prerequisite Courses” below)**

6 credit hours of approved general education Mathematics courses – (refer to the Associate in Arts Degree General Education Program Guide, AA)

Any general education mathematics course

Any general education mathematics course

**Natural Sciences- 6 credit hours to include associated labs** (refer to the Associate in Arts Degree General Education Program Guide, AA) – **can be fulfilled with “Required State Mandated Prerequisite Courses” below**

One natural sciences course with associated lab

One additional natural sciences course with associated lab

**Required State Mandated Prerequisite Courses (grades of “C” or better) and electives for the Associate in Arts Degree (minimum of 23 credit hours):**

EDF 2005 - Introduction to the Teaching Profession -- 3 credits

EDF 2085 - Introduction to Diversity for Educators- (I) -- 3 credits

EME 2040 - Introduction to Technology for Educators -- 3 credits

\* BSC 1010 - Biological Science I -- 3 credits

and

BSC 1010L - Biological Science I Laboratory -- 1 credit

\* BSC 1011 - Biological Science II -- 3 credits

and

BSC 1011L - Biological Science II Laboratory -- 1 credit

\*\* MAC 2311 - Calculus with Analytic Geometry I -- 4 credits

*The following courses (or 8 hours of physics with lab):*

\* CHM 2045 - General Chemistry I -- 3 credits

and

CHM 2045L - General Chemistry I Laboratory -- 1 credit

\* CHM 2046 - General Chemistry II -- 3 credits

and

CHM 2046L - General Chemistry II Laboratory -- 1 credit

(can be taken while enrolled in upper level courses)

**\* Courses can be used to satisfy General Education Core Requirements in Natural Sciences**

**\*\* Course can be used to satisfy General Education Core Requirements in Mathematics**

**Upper Division Education Requirements (60 credit hours); Service Learning (30 hours)**

EDF 3214 - Human Development and Learning -- 3 credits

EDF 4782 - Ethics and Law -- 2 credits

EDG 3410 - Classroom Management and Communication -- 3 credits

EDG 4004 - Special Topics in Education I -- 1 credit

EDM 3230 - Middle & Secondary Curriculum and Instruction -- 3 credits

EEX 3012 - Educational Needs of Students with Exceptionalities -- 3 credits

ESE 4323 - Educational Assessment -- 3 credits

ISC 3120, Scientific Process (FGCU Course) – 3 credits

MCB 2010C - Microbiology -- 4 credits

PCB 3023C - Cell Biology -- 3 credits

PCB 3043C - General Ecology with Lab -- 3 credits

PCB 3063C - Genetics -- 3 credits

RED 4335 - Teaching Reading in the Content Areas -- 3 credits

SCE 3320C - Teaching Biology & Other Life Sciences in Middle School with Practicum -- 4 credits

SCE 3362C - Methods in Teaching High School Science with Practicum -- 4 credits

SCE 4940 - Internship in Secondary Education with Biology Emphasis -- 12 credits

TSL 4140 - ESOL Methods, Curriculum and Assessment -- 3 credits

**Service Learning Requirement (30 hours):**

All Education baccalaureate degrees have a 30-hour service learning requirement. Ten hours will be completed each semester, leading up to final internship. The requirement begins to be met with completion of EDG 4004, and the final culmination and validation of hours will be part of the final internship portfolio for each student.

**School Based Hour Requirements (685 total hours):**

Teacher candidates must submit an application for Practicum I and II as well as for Final Internship to the Field Experience Office. All required benchmarks must be met prior to being approved for Field Experience placements. All practicum courses must span a minimum of ten weeks. During Internship, teacher candidates are expected to attend all duty days and assume all responsibilities as required of the K-12 mentor teacher.

Refer to individual course descriptions for additional details about school based experiences.

**B.S. in Education Graduation Requirements**

1. Students must earn a cumulative GPA of 2.5 or higher on a 4.0 scale.

2. Students must pass all required sections of the Florida Teachers Certification Examinations (FTCE) for certification within the State of Florida.

3. While Florida SouthWestern State College governs a student’s program requirements, changes to a program emanating from the Florida State Board of Education will take precedence over the College catalog and may alter a student’s program of study.

4. The Florida State Board of Education requires all education students to demonstrate competency in all of the revised Florida Educator Accomplished Practices (FEAPs), Florida Subject Area Competencies (FSAC), and Professional Educator Competencies and Skills (PECS) as a condition of graduation, including completion of a professional portfolio. Elementary and Middle Grades Language Arts students must demonstrate achievement of all State required ESOL Competencies and Performance Standards and Reading competencies as a condition of graduation.

5. Students must apply for internship the semester prior to enrollment in the final internship. Fall graduates must apply no later than February 1 of the preceding spring semester. Spring graduates must apply no later than October 1 of the preceding fall semester.

6. Students must successfully complete all school based hours to include two ten week practicums and one fifteen week internship experience as a condition of graduation.

7. Teacher candidates must submit an application for Foundation, Practicum I and II, as well as for Final Internship to the Field Experience Office. All required benchmarks must be met prior to being approved for Field Experience placements. All practicum courses must span a minimum of ten weeks. During internship, teacher candidates are expected to attend all duty days and assume all responsibilities as required of the k-12 mentor teacher.

8. Students must complete 30 service learning hours prior to their final internship in order to graduate.

9. Following graduation, students must apply to the FLDOE for their teaching license.

Students must submit a School of Education Graduation Form to their Internship faculty during their first two weeks of final internship.

Students must also complete an Application for Graduation through the Office of the Registrar and enroll for GRD 4000 the semester in which they intend to graduate. Students must apply for graduation by the published deadline to be assured of final clearance for graduation, timely receipt of diploma, and participation in the graduation ceremony.

**Information is available online at** [**www.fsw.edu/academics/**](http://www.fsw.edu/academics/) **or on the School of Education Home Page at** [**www.fsw.edu/soe**](http://www.fsw.edu/soe)**.**