SEMINOLE STATE COLLEGE

ASSOCIATE IN SCIENCE IN BIOLOGY (210)

Degree Program Evaluation for 2015-16

The information required to complete this annual evaluation process mirrors the information required by OSRHE Policy on Academic Program Review. Specifically, it covers the following Vitality of the Program items: (1) Program Objectives and Goals, (2) Quality Indicators, (3) Minimum Productivity Indicators, and (4) Other Quantitative Measures (for additional information see OSRHE Policy 3.7.5.B.1-4).

1. Program Objectives and Goals

Associate in Science in Life Sciences Degree Program Outcomes

Outcomes for Transfer Degree Programs

Outcome 1: Demonstrate successful articulation of Seminole State College transfer degree programs to state and professional institutions of higher learning granting professional and baccalaureate degrees in Oklahoma.

Outcome 2: Demonstrate successful academic achievement by Seminole State College transfer degree students at primary receiving state baccalaureate institutions of higher learning in Oklahoma. Successful academic achievement is defined as the maintenance of satisfactory academic progress toward degree completion as determined by the receiving institution.

Outcomes Specific to Associate in Science in Life Sciences

Outcome 3: Demonstrate a grasp of biological and related concepts foundational to advanced courses in Life Sciences. Advanced courses shall be defined as courses commonly considered Junior and Senior level at baccalaureate degree granting institutions.

Outcome 4: Demonstrate preparation for continued pursuit of Life Science education leading to a baccalaureate or professional degree in a branch of the Life Sciences.

2. Quality Indicators

Combined Course Embedded Assessment Results For Fall 2015 and Spring 2016 for Major Field Courses in Degree Program

General Education Outcomes	Pre-Test % Correct	Post-Test % Correct	Difference
General Education Outcome 1	20%	67%	47%
General Education Outcome 2	26%	55%	29%
General Education Outcome 3	13%	48%	35%
General Education Outcome 4	26%	56%	30%
Specific Outcomes for AS Life Sciences	**Pre-Test % Correct**	**Post-Test % Correct**	**Difference**
Degree Program Outcome 3	28%	59%	31%
Degree Program Outcome 4	22%	48%	26%

Other Data Indicating Quality Relevant to Degree Program Major Field

Degree Program Enrollment by Ethnicity

Academic Year	Ethnicity	Summer 2015		Fall 2015		Spring 2016	
2015-16	Total Students	6	100%	29	100%	30	100%
[redacted]	Black	0	0%	4	14%	4	13%
	Indian	3	50%	8	28%	7	24%
	Asian	1	17%	0	0%	0	0%
	Hispanic	0	0%	1	3%	1	3%
	Hawaiian/Pacific Islander	0	0%	0	0%	0	0%
	White	2	33%	15	52%	17	57%
	Undeclared	0	0%	1	3%	1	3%

Degree Program Enrollment by Gender

Academic Year	Gender	Summer 2015	Fall 2015	Spring 2016
2015-16	Male	2	9	10
[redacted]	Female	4	20	20

Student Feedback on Instruction:
The average response scores from the Student Feedback on Instruction ranged from 4.50 to 4.78 for the rated scale questions. Therefore, all of the averaged responses fell between "usually applies" and "almost always applies" with those responses describing desired attributes or behaviors.
Graduate Exit Survey:
Overall, students rated their academic experience favorably with 84% of the students rating "quality of teaching in your major field of study" as excellent or above average. More than 82% of students rated "faculty concern for student well-being" and "faculty commitment to student success and learning" as excellent or above average.

Collegiate Assessment of Academic Proficiency (CAAP) Test:
The Science portion of the CAAP test was 0.1 of a point below the national mean.
The Mathematics portion of the CAAP test was 0.4 of a point below the national mean for the current year.

Community College Survey of Student Engagement:
No longer used

Faces of the Future Survey: no longer used

Other Quality Indicators: none

3. Minimum Productivity Indicators

Productivity Indicators

Academic Year	Semester	Declared Majors	Graduates
2015-16	Summer 2014	6	1
[redacted]	Fall 2014	29	0
	Spring 2015	30	3

Does the degree program meet the minimum OSRHE standards for productivity this year?
Majors Enrolled (25 per year): Yes
Degree Conferred (5 per year): No

Comments/Analysis:
SSC is striving to have students complete their degrees even after transferring to another school. This practice should result in higher graduation rates in this degree program since so many students are enrolled in this program.

Low Productivity Justification:

4. Other Quantitative Measures

Number of Sections Taught and Enrollment for Each Course in Major Field of Degree Program

Prefix	Number	Major Field Course Title	Number of Sections	Total Students	Ave. Class Size	Total Credit Hours Generated
BIOL	1113	Introduction to Environmental Science (not offered this period)				
BIOL	1214	Principles of Biology	7	192	27	768
BIOL	1224	General Botany	1	9	9	36
BIOL	1234	General Zoology	2	41	20	164
CHEM	1114	Introduction to Chemistry	3	75	25	300
CHEM	1315	General Chemistry I	3	76	25	380
CHEM	1515	General Chemistry II	1	7	7	35
BIOL	2113	Introduction to Nutrition	2	39	20	117
BIOL	2114	Human Anatomy	4	125	31	500
BIOL	2214	Human Physiology	5	117	23	468
BIOL	2224	Microbiology	4	111	28	444
BIOL	2300	Special Projects in Biology	1	1	1	1
PHYS	2114	General Physics I	1	18	18	72
PHYS	2224	General Physics II	1	15	15	60

Credit Hours Generated in Major Field Courses of Degree Program By Level (from table above)

Academic Year	1000 Level Credit Hours Generated	2000 Level Credit Hours Generated
2015-16	1683	1662

Note: Credit Hours Generated columns represent the student credit hours generated by all the major field courses of the degree program for the given academic year. The hours do not represent the number of student credit hours generated only by those students declaring this major.

Direct Instructional Costs

Academic Year	Instructional Costs*	Costs Shown By Division or Program?
2015-16	$459,621.21	Science Division

*When cost data are not available by degree program, use total division budget for instructional costs for each degree program.

Credit Hours Generated by Courses in Major Field That Are Part of General Education Requirements in Other Degree Programs

Major Field Course Information			
Prefix	**Number**	**Title**	**Credit Hours Generated**
BIOL	1114	General Biology	896
BIOL	1214	Principles of Biology	768
BIOL	1224	General Botany	36
BIOL	1234	General Zoology	164

Faculty Teaching Major Field Courses in Degree Program

Name	Teaching Area	Highest Degree	Institution
Allen, Matthew	Science	Ph.D.	Oklahoma State University
Holtz, Chris	Science	M.S.	University of California, San Diego
Hernandez, T	Science	M.Ed.	Grand Canyon University, Phoenix
Jobe, Noble	Science	Ph.D.	Oklahoma State University
Tollett, Jarrod	Mathematics / Science	M.Ed.	East Central University
Walker, Susan	Science	M.S.	Oklahoma State University
Current Full-Time Faculty From Other Divisions Teaching Major Courses in Degree Program (Instructors with ** beside their name teach only zero-level classes)			
Cook, Jason	Science	B.S.	University of Oklahoma
Current Adjunct Faculty Teaching Major Courses in Degree Program (Instructors with ** beside their name teach only zero-level classes)			
Creekmore, Sindi	Science	M.D.	University of Sint Eustadius
Helseth, Dave	Science	M.S.	Oklahoma State University
Kistenmacher, K	Science	B.S.	University of Oklahoma
Woodward, Christina	Science	M.S.	Oral Roberts University

5. Recommendations and Other Relevant Items: Describe recommendations, new developments or initiatives pertaining to degree program.

Maintain program at current level.