SEMINOLE STATE COLLEGE
ASSOCIATE IN SCIENCE IN COMPUTER SCIENCE (226)

2016-17 Degree Program Evaluation

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 of Science in Computer Science 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 Computer Science

Outcome 3: Demonstrate problem-solving skills related to the world of information systems.

Outcome 4: Demonstrate preparation for continued pursuit of courses leading to a baccalaureate degree in Information Systems.
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2. Quality Indicators

Combined Course Embedded Assessment Results for Fall 2016 and Spring 2017 for Major Field Courses in Degree Program

General Education Outcomes	Pre-Test % Correct	Post-Test % Correct	Difference
General Education Outcome 1	17%	64%	47%
General Education Outcome 2	12%	56%	44%
General Education Outcome 3	17%	64%	47%
General Education Outcome 4	12%	68%	56%
Specific Outcomes for AS Computer Science	Pre-Test % Correct	Post-Test % Correct	Difference
Degree Program Outcome 3	15%	58%	43%
Degree Program Outcome 4	14%	60%	46%

Other Data Indicating Quality Relevant to Degree Program Major Field

Degree Program Enrollment by Ethnicity

Academic Year	Ethnicity	Summer 2016		Fall 2016		Spring 2017	
2016-17	Total Students	3	100%	33	100%	31	100%
	Black	0	0%	2	6%	2	6%
	Indian	2	67%	10	30%	6	19%
	Asian	0	0%	0	0%	0	0%
	Hispanic	0	0%	1	3%	1	3%
	Hawaiian/Pacific Islander	0	0%	0	0%	0	0%
	White	1	33%	19	58%	21	68%
	Undeclared	0	0%	1	3%	1	9%

Degree Program Enrollment by Gender

Academic Year	Gender	Summer 2016	Fall 2016	Spring 2017
2016-17	Male	3	28	28
	Female	0	5	3

Student Feedback on Instruction: The average response scores ranged from 4.24 to 4.73 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. The average response score for the rated-scale questions pertaining to all classes was 4.47.

Graduate Exit Survey: "Quality of teaching in your major field of study" scored highest overall with 82.7% of students choosing excellent or above average while the "quality of computer laboratory equipment" repeatedly as a weakness with a score of 56.9%.

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 0.1 of a point below the national mean for the current year. The Critical Thinking portion of the CAPP test was 0.5 of a point below the national mean for the current year.

Faculty Survey on Student Engagement: The first Faculty Survey on Student Engagement reflects that 34% of faculty members employ student success techniques that result in the faculty identifying student behavior that should result in successful completion of the course and program. In the future, administration of the survey will be conducted in way that will result in more faculty participation with participation percentage set by the Assessment of Student Learning Committee.

3. Minimum Productivity Indicators

Productivity Indicators

Academic Year	Semester	Declared Majors	Graduates
2016-17	Summer 2016	3	0
	Fall 2016	33	1
	Spring 2017	31	6

Does the degree program meet the minimum OSRHE standards for productivity this year?
Majors Enrolled (25 per year): Yes
Degree Conferred (5 per year): Yes

Comments/Analysis: We are in the process of modifying our current degree program. With the modifications, we are going to strengthen our core offerings. This in turn will allow our students to transfer to various four year schools to stay on track for graduation.

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
CAP	1003	Elementary Computer Literacy (not offered this period)				
CS	1113	Programming in Visual Basic	1	14	14	42
CS	1313	Programming in Java	1	21	21	63
CS	1173	Hardware System Support (not offered this period)				
CS	1183	Information Security	1	17	17	51
ENGR	1113	Introduction to Engineering	1	18	18	54
MATH	1613	Plane Trigonometry	2	24	12	72
ACCT	2033	Financial Accounting	2	46	23	138
BA	2113	Macroeconomics	4	80	20	240
BA	2253	Business Statistics	4	67	201	
CAP	2603	Advanced Microsoft Access	1	12	12	36
CAP	2643	Advanced Microsoft Excel	1	3	3	9
CS	2003	Web Page Design Using HTML (not offered this period)				
CS	2013	Programming in C++	1	20	20	60
CS	2173	Operating Systems				
CS	2300	Special Projects in Computer Science (not offered this period)				
MATH	2215	Calculus and Analytic Geometry I	2	33	17	165
MATH	2424	Calculus and Analytic Geometry II	2	11	6	44
MATH	2434	Calculus and Analytic Geometry III	2	15	8	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
2016-17	282	752

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?
2016-17	$39,552.00	Computer Science

*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**
		Na	

Faculty Teaching Major Field Courses in Degree Program

Name	Teaching Area	Highest Degree	Institution
Chun Fu Cheng	Information Systems	MBA Management	Oklahoma City University
Tammy Kasterke	Information Systems	MBA Management	Cameron University
Brad Schatzel	Business/Information Systems	MBA Management	University of Central Oklahoma
Current Full-Time Faculty From Other Divisions Teaching Major Courses in Degree Program **(Instructors with ** beside their name teach only zero-level classes)**			
Melissa Bryant	Mathematics	M.Ed.	East Central University
Linda Goeller	Mathematics	Ph.D.	Oklahoma State University
Current Adjunct Faculty Teaching Major Courses in Degree Program **(Instructors with ** beside their name teach only zero-level classes)**			
Michael Schnell	Information Systems	MS Information Technology	Florida Institute of Technology
Annette Troglin	Mathematics	M.Ed.	East Central University

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

After visiting with some former students that had transferred to various four-year schools, one class that they all would have liked to have taken here at SSC was a Programming II class. With this feedback, we are in the process of adding a Programming in C++ II course to our CS degree. By adding this course this will allow students who will transfer to various schools stay on track for graduation. Over the next few years we will be in the process of updating the older computer labs where the computer courses are offered. We are also looking at trying to update the wireless connectivity across campus.