Program Learning Outcomes

Program Name: Computer Science (B.A. and B.S.)

Date: 5/1/2020 Rev. 3-29-24

Program Learning Outcomes Knowledge, skill, or behavior students can demonstrate upon program completion	Courses Mapped to Outcomes									
	112	115	125	235	245	255	265	300 level	470	481/2
1 Effective communicators who are able to relate technical content to both technical and non-technical audiences	I	I				R	R	R/M		M
2 Have a broad knowledge of the fundamental concepts of computing	I			R		R	R	R/M	M	
3 Good programmers		I	I	R	R			R/M		M
4 Function as successful members of a project-based team	I	I		R				R		M
5 B.S.-specific outcome: Understanding of the theoretical foundations of Computer Science			I					R	M	

Program Learning Outcomes: Assessment Tools

Program Name: Computer Science (B.A. and B.S.)   Date: 5/1/2020 Rev. 3-29-24

Program Learning Outcomes Knowledge, skill, or behavior students can demonstrate upon program completion		Measurement Tool	Timeline/Frequency of Assessment	Target	Review
1	Effective communicators who are able to relate technical content to both technical and non-technical audiences	Performance in CSCI 481/2 on Seminar-style presentation, poster presentation, Ethics paper, and project documentation.	Assessment of Student Performance and progress on a tri-annual basis, after MFAT scores are obtained	75% of CS majors will earn a "good" or better on the measurement tools	We will look at the results during our last departmental meeting of the academic year
2	Have a broad knowledge of the fundamental concepts of computing	MFAT/Computer Science: Systems, Discrete Structures and Algorithms	Assessment of student performance and progress on a tri-annual basis, after CSCI scores are obtained	The mean score of graduating majors on MFAT will show at least 50% of answers correct in the Systems category, and at least 50% of the answers correct in the Discrete Structures and Algorithm category	We will look at the results during our last departmental meeting of the academic year
3	Good programmers	Performance in CSCI 235 and 245, which are baseline classes for learning programming skills. MFAT/Computer Science: Programming Fundamentals	Assessment of student performance and progress on a tri-annual basis, after MFAT scores are obtained	75% of CS majors will earn a B- or better in CSCI 235 and CSCI 245. The mean score of graduating majors on MFAT will show at least 50% of answers correct in the Programming Fundamentals category	We will look at the results during our last departmental meeting of the academic year
4	Function as successful members of a project-based team	Performance in CSCI 481/482, which are required of all CS majors. Students are assigned to teams and do self- and peer- evaluation at the end of each semester.	Assessment of a student performance and progress on a tri-annual basis, after CSCI 481/2 scores are obtained	Average student assessment on team participation will be above 70%	We will look at the results during our last departmental meeting of the academic year
5	B.S.-specific outcome: Understanding of the theoretical foundations of Computer Science	MFAT/Computer Science: Systems, Discrete Structures and Algorithms	Assessment of student performance and progress on a tri-annual basis, after MFAT scores are obtained	The mean score of graduating B.S. majors on MFAT will show at least 70% of answers correct in the Discrete Structures and Algorithms categories	We will look at the results during our last departmental meeting of the academic year