Computer Science (Software Engineering and Technical Applications) Criteria for Success (2016-17)

Department Learning Outcomes	Program Learning Outcomes	Measure	Criteria for Success
Graduates will have a coherent and broad based knowledge of their discipline.	Students will be able to write correct and robust software.	CSC 254 Signature Assignment (A)	80% of the students should have an average score of at least 2.5 in each of the major areas.
(Teach)	Students will use the theory of algorithms and computation to solve problems.	ETS MFT: Structures and algorithms subscore (A)	ETS MFT: The department subscore will be at the 65th percentile or higher.
	Students will analyze the interaction between hardware and software.	ETS MFT: Computer Organization, Architecture and Operating Systems subscore (A)	ETS MFT: The department subscore will be at the 65th percentile or higher.
		CSC314 Signature Assignment (A)	CSC314: 80% of the students should have an average score of at least 70%.
Students will develop characteristics necessary to be effective members of	Students will be able to apply their technical knowledge and critical thinking to solve	CSC493 Signature Assignment (2)	75% of the students will score at least 70%.
(Shape)	problems. (CC: CT)	ETS Proficiency Profile: Critical Thinking (A)	ETS PP: 85% of the students will be marginal or proficient at Level 2 Reading/Critical Thinking.
	Students will be able to speak about their work with precision, clarity and organization. (CC: OC)	Senior Seminar: Oral presentation evaluated by a jury using a rubric (A).	80% of the students should have an average score of at least 2.5 in each of the major areas in the department rubric. This translates to 80% of the students being above a 3.5 in the AAC&U rubric.
	Students will be able to write about their work with precision, clarity and organization. (CC: WC)	Senior Seminar: Written summary evaluated by a jury using a rubric (A).	80% of the students should have an average score of at least 2.5 in each of the major areas in the department rubric. This translates to 80% of the
		ETS Proficiency Profile: Writing (A)	students being above a 3.5 in the AAC&U rubric.
			ETS PP: 85% of our students will be marginal or proficient on the Level 2 Writing test.
	Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand. (CC: IL)	Senior Seminar: Written summary evaluated by a jury using the information literacy portion of the departmental writing rubric (A).	80% of the students should have an average score of at least 2.5 in each of the major areas in the information literacy part of the rubric.
	Students will collaborate effectively in teams.	ISS342 Group assignment (2)	80% of the students should have an average score of at least 2.5 in each of the major areas.
	Students will be able to understand and create arguments supported by quantitative evidence. (CC: QR)	ETS Proficiency Profile: Mathematics (A)	ETS PP: ETS PP: 95% of the students will be Marginal or Proficient at Level 2.

Department Learning Outcomes	Program Learning Outcomes	Measure	Criteria for Success
We believe that work is an act of service. Graduates will be prepared to serve a complex world through their technical and professional abilities. (Send)	Graduates will be prepared for careers that use computer science in business, industry, government and the non-profit sector; and graduate study in fields related to computer science.	 Overall ETS Score (A) Alumni survey (PR) If you have a job in Computer Science or Information Systems: On a scale of 1 to 5, 1 being outstanding and 5 being poor, how well do you think that the undergraduate Information Systems curriculum at PLNU prepared you for your work in the field? If you are going to graduate school or went to graduate school: On a scale of 1 to 5, 1 being outstanding and 5 being poor, how well do you think that the undergraduate Information Systems curriculum at PLNU prepared you for graduate school or went to graduate school: On a scale of 1 to 5, 1 being outstanding and 5 being poor, how well do you think that the undergraduate Information Systems curriculum at PLNU prepared you for graduate school? 	ETS MFT: 50% of our students achieve above the 50th percentile on the exam. Survey: An average response of 2 for each question.

A – means that the measure is done annually 2 – means that the measure done every two years PR – means that the measure done every six years as part of Program Review

Information Systems Curriculum Criteria for Success - MICS (2016-17)

Department Learning Outcomes	Program Learning Outcomes	Measure	Criteria for Success
Graduates will have a coherent and broad based knowledge of their discipline.	Students will be able to write correct and robust software.	MICS: CSC252/CSC254 Signature Assignment (A)	MICS: 80% of the students should have an average score of at least 2.5 in each of the major areas.
(Teach)	Students will analyze the interaction between hardware and software.	MICS: CSC314 Signature Assignment (A)	MICS: CSC314: 80% of the students should have an average score of at least 7.
	Students will demonstrate general knowledge of theories and practices in the core areas of business.	FSB: Peregrine Comprehensive Exam (A)	FSB: At or above the average total score of comparative ACBSP schools.
Students will develop characteristics necessary to be effective members of the communities where they work and	Students will critically analyze and apply business knowledge to solve complex business situations. (CC: CT)	FSB: CAPSIM COMP-XM Simulation Results – Balanced Score Card through 4 years	FSB: Score above 70th percentile on the national COMP-XM Simulation Results
live.		FSB: CAPSIM COMP-XM Simulation Results – Balanced Score Card through 4 years	FSB: Score above 55th percentile on the national COMP-XM Board Query Results
(Shape)	Students will be able to apply their technical knowledge and critical thinking to solve problems. (CC: CT)	MICS: ISS414 Signature Assignment (2) MICS: ETS Proficiency Profile: Critical Thinking (A)	MICS: 80% of the students should have an average score of at least 2.5 in each of the major areas. MICS: ETS PP: 85% of the students will be marginal or proficient at Level 2 Reading/Critical Thinking.
	Students will demonstrate effective business communication through both written and verbal means	MICS: Internship Paper (A) MICS: Video Cover Letter (A)	MICS: 75% of students will score at least a 3.0 or higher on a 4.0 scale on Final Internship Research Report
			MICS: 75% of students will score at least a 3.0 or higher on a 4.0 scale on Video Cover Letter (starting 2017-18)
	 (a) Students will be able to speak about their work with precision, clarity and organization. (CC: OC) 	MICS: Senior Seminar: Oral presentation evaluated by a jury using a rubric (A).	MICS: 80% of the students should have an average score of at least 2.5 in each of the major areas in the department rubric. This translates to 80% of the students being above a 3.5 in the AAC&U rubric.
	(b) Students will be able to write about their work with precision, clarity and organization. (CC: WC)	MICS: Senior Seminar: Written summary evaluated by a jury using a rubric (A).	MICS: 80% of the students should have an average score of at least 2.5 in each of the major areas in the department rubric. This translates to 80% of the
		MICS: ETS Proficiency Profile: Writing (A)	students being above a 3.5 in the AAC&U rubric. MICS: ETS PP: 85% of our students will be marginal or proficient on the Level 2 Writing test.
	(c) Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand. (CC: IL)	MICS: Senior Seminar: Written summary evaluated by a jury using the information literacy portion of the departmental writing rubric (A).	MICS: 80% of the students should have an average score of at least 2.5 in each of the major areas in the information literacy part of the rubric.

Department Learning Outcomes	Program Learning Outcomes	Measure	Criteria for Success
Students will develop characteristics necessary to be effective members of the communities where they work and live. (Shape)	Students will collaborate effectively in teams.	MICS: ISS342 Group assignment (2) FSB: CAPSIM COMP-XM Simulation (Team Assignment) Results FSB:CAPSIM COMP-XM Knowledge of Team Module Results FSB: CAPSIM COMP-XM Peer Evaluation Module Results	 MICS: 80% of the students should have an average score of at least 2.5 in each of the major areas. FSB: Average team score will be above 75th percentile on the national Capstone Simulation FSB: Average student score will be above the 75th percentile on the COMP-XM Knowledge of Teamwork Module FSB: Average student score will be a 4.5 or higher on a 5.0 scale in both areas of the Capstone Peer Evaluation Module
	Students will be able to understand and create arguments supported by quantitative evidence. (CC: QR)	MICS: ETS Proficiency Profile: Mathematics (A)	MICS: ETS PP: ETS PP: 95% of the students will be Marginal or Proficient at Level 2.
	Students will formulate decisions informed by ethical attitudes and values.	FSB: CAPSIM COMP-XM Ethics Module Results	FSB: Average student score will be above the 55th percentile on the national COMP-XM Ethics Module
We believe that work is an act of service. Graduates will be prepared to serve a complex world through their technical and professional abilities.	Graduates will be prepared for careers that use information systems in business, industry, government and the non-profit sector; and graduate study in fields related to information systems.	MICS: ETS MFT Computer Science Score (A) We will be switching to the Peregrine Information Systems test (once it is completed) (A) MICS: Internship Supervisor Evaluations (A)	MICS: MFT: 50% of our students achieve above the 25th percentile on the exam. MICS: Internship: 80% of the students will have an average score of 2.5 or higher on key elements
(Send)		 MICS: Alumni survey (PR) If you have a job in Computer Science or Information Systems: On a scale of 1 to 5, 1 being outstanding and 5 being poor, how well do you think that the undergraduate Information Systems curriculum at PLNU prepared you for your work in the field? If you are going to graduate school or went to graduate school: On a scale of 1 to 5, 1 being outstanding and 5 being poor, how well do you think that the undergraduate Information Systems curriculum at PLNU prepared you for graduate school? 	MICS: Survey: An average response of 2 for each question.

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Mathematics Curriculum Criteria for Success (2016-17)

Department Learning Outcomes	Program Learning Outcomes	Measure	Criteria for Success
Graduates will have a coherent and broad based knowledge of their discipline. (Teach)	Students will be able to demonstrate facility with analytical concepts.	ETS MFT: Calculus subscore (A)	ETS MFT: The department subscore will be at the 50th percentile or higher
	Students will be able to write proofs.	MTH242 (A), MTH424 (2) and MTH444 (2) Signature Assignments	80% of the students to score a 2.5 or higher (on a scale of 1-4) in each of the four areas: statement of the problem, logic, symbolism, and justification.
	Students will be able to demonstrate facility with algebraic structures.	ETS MFT: Algebra subscore (A)	ETS MFT: The department subscore will be at the 50th percentile or higher
Students will develop characteristics necessary to be effective members of the communities where they work and	Students will be able to apply their mathematical knowledge and critical thinking to solve problems. (CC: CT)	ETS MFT: Applied subscore (A) ETS Proficiency Profile: Critical Thinking (A)	ETS MFT: The department subscore will be at the 50th percentile or higher
live.			ETS PP: 85% of the students will be marginal or proficient at Level 2 Reading/Critical Thinking.
(Shape)	Students will be able to use technology to solve problems.	MTH383 Signature Assignment (2)	MTH383: 80% of the students should have an average score of at least 2.5 in each of the major areas.
	Students will be able to speak about their work with precision, clarity and organization. (CC: OC)	Senior Seminar: Oral presentation evaluated by a jury using a rubric (A).	80% of the students should have an average score of at least 2.5 in each of the major areas in the department rubric. This translates to 80% of the students being above a 3.5 in the AAC&U rubric.
	Students will be able to write about their work with precision, clarity and organization. (CC: WC)	Senior Seminar: Written summary evaluated by a jury using a rubric (A). ETS Proficiency Profile: Writing (A)	80% of the students should have an average score of at least 2.5 in each of the major areas in the department rubric. This translates to 80% of the students being above a 3.5 in the AAC&U rubric.
			ETS PP: 85% of our students will be marginal or proficient on the Level 2 Writing test.
	Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand. (CC: IL)	Senior Seminar: Written summary evaluated by a jury using the information literacy portion of the departmental writing rubric (A).	80% of the students should have an average score of at least 2.5 in each of the major areas in the information literacy part of the rubric.
	Students will collaborate effectively in teams.	MTH352 Group assignment (2) Group rubric/questionnaire	80% of the students should have an average score of at least 2.5 in each of the major areas.
	Students will be able to understand and create arguments supported by quantitative evidence. (CC: QR)	ETS Proficiency Profile: Mathematics (A)	ETS PP: ETS PP: 95% of the students will be Marginal or Proficient at Level 2.
	Note this happens throughout all classes in a mathematics program.		

Department Learning Outcomes	Program Learning Outcomes	Measure	Criteria for Success
We believe that work is an act of service. Graduates will be prepared to serve a complex world through their technical and professional abilities. (Send)	Graduates will be prepared for careers that use mathematics in business, industry, government and the non-profit sector; graduate study in fields related to mathematics; and teaching mathematics and computer science at the secondary level.	 Overall ETS Score (A) Alumni survey (PR) If you have a job in Computer Science or Information Systems: On a scale of 1 to 5, 1 being outstanding and 5 being poor, how well do you think that the undergraduate Information Systems curriculum at PLNU prepared you for your work in the field? If you are going to graduate school or went to graduate school: On a scale of 1 to 5, 1 being outstanding and 5 being poor, how well do you think that the undergraduate Information Systems curriculum at PLNU prepared you for graduate school? Fieldwork for Prospective Teachers (A) 	ETS MFT: 50% of our students achieve above the 50th percentile on the exam. Survey: An average response of 2 for each question. Fieldwork: 80% of the students will have an average score of 2.5 or higher

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