

Program: LAS: Engineering Science AS					
Program Goals	Provide graduates with the educational experiences and methods scientists use to explore natural phenomena and to employ appropriate experimental design, critical thinking and methodology to solve problems in Engineering Science.	Provide graduates with a comprehensive knowledge base of Engineering Science	Provide graduates with opportunities to discuss and evaluate current issues in Engineering Science.	Meets General Education Requirement	Meets Graduation Requirement
ILO Reference To which ILO(s) do the PLO(s) link?	B- Knowledge Management C- Problem Solving	B- Knowledge Management C-Problem Solving D- Ethics and Social Responsibility	A- Communication B- Knowledge Management D- Ethics and Social Responsibility	A, B, C, D, E	A, B, C, D, E
Program Learning Outcome <i>Successful graduates from this program will be able to...</i>	Employ appropriate experimental design, methodology and use critical thinking to analyze specific data.	Exhibit basic mastery of content in Engineering Science.	Effectively communicate underlying principles as they apply to current issues in Engineering Science.		
Assessment Tools	Written, problem oriented, presentations or performances, scored using a rubric; software applications assignments, case studies, or other methods of assessment; Course grade with associated rubrics.	Written, problem oriented, presentations or performances, scored using a rubric; software applications assignments, case studies, or other methods of assessment; Course grades with associated rubrics. Scores on locally-designed exams accompanied by "test blueprints"	Written work, presentations or performances, scored using a rubric. Course grade with associated rubrics.		
EN111				X	X
FS100					X
EN112				X	X
SC 153 Chemistry	X			X	X

Program Goal Map
 Course alignment to the program goals
As of 2014-2015

MA 245 Calculus I	X			X	X
SC191 Intro Engineering	X	X	X	X	X
SC192 Engineering Science II	X	X	X	X	X
MA 246 Calculus II	X			X	X
SC233 Calculus Physic I	X	X		X	X
Am History Selective				X	X
MA247 Calculus III	X			X	X
SC234 Calculus Physic II	X	X		X	X
SC 258 Statics	X	X	X	X	X
IS124 or SC155	X			X	X
Physical Ed Activity x2					X
SC230 Strength of Materials	X	X	X	X	X
SC239 Dynamics	X	X	X	X	X
Arts Selective				X	X
Humanities Selective				X	X
Social Science Selective				X	X