



**WILLIAM WOODS
UNIVERSITY**

Pre-Engineering Annual Assessment 2018-2019

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Annual Assessment 18-19

Pre-Engineering

Program Profile

Program Mission Statement

Please insert your program mission statement here

The Pre-Engineering program endeavors to equip students with the necessary skills in Mathematics, Chemistry, and Physics. With these skills, they will have high odds of success in their pursuit of an undergraduate Engineering degree. The program contributes to the development of students as problem solvers, enabling them to become life-long learners, to continue to develop in their chosen professions, and to function as productive citizens.

Program Data

Delivery Method

Traditional On Campus (selected)

Online

Hybrid

Students Majors 2017-18

Student Majors 2018-19

3

Student Minors 2017-18

Student Minors 2018-19

Concentrations 2017-18

If your program contains concentrations, please list the concentrations and the number of students identified within each concentration.

None.

Concentrations 2018-19

If your program contains concentrations, please list the concentrations and the number of students identified with each concentration.

None.

Student Demographics

What are the program goals for student retention, persistence and degree completion? What do the persistence numbers mean to the faculty in the program? Are your persistence numbers what you expected? If not, how could the numbers be improved? What is the optimal enrollment for the program?

The Pre-Engineering program started in the 2017-18 year, so there is no data yet on persistence and degree completion.

Is the Program Externally Accredited

Yes
No (selected)

External Accreditation

Name the Accrediting Agency or entity including the last review/approval. Is there an accrediting body for the field of study? If yes, what is the name of the group. Is the program seeking accreditation? If no, why?

There is no external accreditation for Pre-Engineering.

Marketing Materials

Please reflect on the current marketing materials used for the program. Detail what documents you are reviewing and attach a screenshot of any webpages or materials that you cannot include as a document. What changes, if any should be made to the material? Are there recommendations for how or where to market the program?

Marketing Material

Program Assessment

Standard/Outcome

Identifier	Description
WWU2016.1	Major Field Competence: Students will demonstrate excellence in an academic or professional discipline, and engage in the process of academic discovery.
WWU2016.2	Ethics: Students will exhibit values and behaviors that address self- respect and respect for others that will enable success and participation in the larger society.
WWU2016.3	Self-Liberation: Students will develop an honest understanding and appreciation of themselves and others resulting in an ability to make individual decisions.
WWU2016.4	Lifelong Education: Students will possess an intellectual curiosity and desire for continual learning both within and beyond formal education in preparation for participation in a global society.

General Education Alignment to Program

How do the General Education criteria align with the Program Objectives? What courses within your program build upon skills learned in general education courses (please list the program course and the general education criteria). The General Education clusters are: Critical Analysis, Creative Expression, Quantitative Inquiry, and Society & the Individual. See attached for more detailed breakdown.

GE_Cluster_Descriptions_FINAL_Version_Approved.docx

Curriculum Map

A - Assessed
 R - Reinforced
 I - Introduced
 M - Master

Changes to Curriculum

Are there any changes made to the curriculum map for this academic year? If so, please describe the program changes made along with the rationale for why and the impact the change should have on student learning?

Assessment Findings

Analysis of the Assessment Process

Describe your assessment process; clearly articulate how the program is using course work and or assessment day activities for program assessment. Note any changes that occurred to that process since the previous year. Discuss what activities were successful at assessment and which ones were not as helpful and why. Please include who met to discuss the changes (unless you are a program of one person) and when you met. – Include a discussion on the process for collection and analysis of program data.

Pre-Engineering primarily uses the Performance day portfolio preparation and interviews for assessment. As the program grows, we will continue to develop further assessment opportunities. As there are no faculty solely dedicated to Pre-Engineering, the discussion will be between the Mathematics and Physics faculty.

Improvement Narrative List

Program Activities

Student Performance Review

Describe the department assessment day activities if not already described previously. Please articulate the nature of the assessments are conducted, explain the process for assessment that happens on these two days. Include the schedule of assessment day for your program. What does the data and outcomes tell you? What changes will you make as a result of the data? What areas are successful for the program?

The Pre-Engineering majors participated in the interviews with the Math and Physics majors for the Performance days. They were asked to prepare a portfolio discussing their past academic performance as well as their future academic and career goals. They then met for an individual interview with the Mathematics and Physics faculty.

Student Performance Review Schedule

Upload the program schedule for students during Performance Reviews.

Senior Showcase

Describe program Senior Showcase activities if not detailed previously in the report? What benefit does the program gain from the activities? What if any assessment of students happens during this event? What changes if any will occur due to

what is learned by faculty on Senior Showcase?

There were no senior Pre-Engineering majors this year.

Assessment Rubrics

Upload rubrics used for Senior Showcase or Student Performance Reviews for student assessment.

Mathematics_Assessment_Rubric.doc

Service Learning

Does the Program include projects/ course content that uses the philosophy of service learning?

Yes

No (selected)

Service Learning Component

If so, how is service learning infused in the coursework within your department? Is service or community engagement in the program mission? Describe the Service Learning Activities that your students and department engaged in this past year. How did the activities improve student learning? How did the activities benefit the community?

LEAD Events

Highlight lead events sponsored by program faculty that are connected to program or general education objectives for the past academic year. Include a total number of lead events program faculty sponsored.

No LEAD events were held relating to Pre-Engineering in the 2018-19 academic year.

Student Accomplishments

Highlight special examples of student successes in the field (academic: mentor-mentee, conference presentations, competitive internship, journal acceptance; extra-curricular: horse show championship, art exhibit). This is for any accomplishments that a student achieved outside of course work or the normal expectations of student success.

None for the 2018-19 school year.

Alumni Accomplishments

Please highlight special examples of any successes of recent graduated alumni (acceptance or graduation graduate school, employment or professional milestones. Include recent graduates.

None for the 2018-19 school year.

Faculty Accomplishments

Highlight special examples of faculty success in the profession/field/content area. This is for any accomplishment of a faculty activity/research/professional nature.

None for the 2018-19 school year.

Assessment Rubric

	3.000 Exceeds	2.000 Meets	1.000 Falls Below Expectations	N/A
Mission Statement Clearly Articulated weight: 1.000	<p><input checked="" type="checkbox"/> The mission statement for the program is insightful and forward thinking. It aligns with the University Mission and learning objectives showing a clear alignment between the University and the program.</p>	<p><input checked="" type="checkbox"/> The mission statement for the program clearly articulated and aligned with the University mission.</p>	<p><input checked="" type="checkbox"/> The mission statement is minimal at best.</p>	<input checked="" type="checkbox"/> N/A
Comment:				
Reflection on Retention weight: 1.000	<p><input checked="" type="checkbox"/> The program provides a detailed description on the retention numbers. The program provides new ideas on how to improve retention of their program students or articulates what they are currently doing to keep students in their program.</p>	<p><input checked="" type="checkbox"/> The program provides a basic reflection on the retention data provided.</p>	<p><input checked="" type="checkbox"/> The program does not reflect on retention data in a detailed way.</p>	<input checked="" type="checkbox"/> N/A
Comment:	this is due to the program being so new, there is not enough data to show retention and persistence numbers. Also the program is small so we are talking about single digit numbers..			
Defines External Accreditation Standards weight: 1.000	<p><input checked="" type="checkbox"/> The program provides a detailed explanation of the accreditation organizations within the field along with all the timeline and supplemental information required for accreditation.</p>	<p><input checked="" type="checkbox"/> The program provides a basic explanation of the accreditation organizations in the field.</p>	<p><input checked="" type="checkbox"/> The program fails to provide any accreditation information.</p>	<input checked="" type="checkbox"/> N/A
Comment:				
General Education alignment clearly explained weight: 1.000	<p><input checked="" type="checkbox"/> The program provides a detailed explanation of the General Education criterial and how the basic skills learned are expanded upon in the program. Details include but are not limited to: specific courses, or activities that stretch the knowledge of the specific areas.</p>	<p><input checked="" type="checkbox"/> The program provides a basic explanation of the General Education curriculum and how the skills learned are expanded in program courses.</p>	<p><input checked="" type="checkbox"/> The program provides a minimal explanation of the General Education curriculum and how the skills learned are expanded in program courses.</p>	<input checked="" type="checkbox"/> N/A
Comment:				
Curriculum Map alignment weight: 1.000	<p><input checked="" type="checkbox"/> The curriculum map is detailed and complete.</p>	<p><input checked="" type="checkbox"/> The curriculum map is complete</p>	<p><input checked="" type="checkbox"/> The curriculum map is not complete</p>	<input checked="" type="checkbox"/> N/A
Comment:				
Assessment of Objectives weight: 1.000	<p><input checked="" type="checkbox"/> Assessment of objectives are spread out across the curriculum with a variety of assessment measures and each program objective is assessed a minimum of twice a year.</p>	<p><input checked="" type="checkbox"/> Each objective is assessed a minimum of 2 times a year or an assessment rotation is explained so that all objectives are assessed. The assessments are not concentrated in one class.</p>	<p><input checked="" type="checkbox"/> The assessment map is not complete or much of the assessment happens in only one course. Not all objectives are assessed annually, nor is a plan provided on assessment.</p>	<input checked="" type="checkbox"/> N/A
Comment:				
Data Driven Decision-making is explained weight: 1.000	<p><input checked="" type="checkbox"/> Curricular and assessment changes are articulated and validated through data based decisions. Faculty discuss the data that lead to curricular decisions being made.</p>	<p><input checked="" type="checkbox"/> Curricular and assessment decisions are made based on data provided in assessment, but detailed alignment is not provided as justification for the change.</p>	<p><input checked="" type="checkbox"/> Changes are proposed and brought forth with little explanation on the data included in the decision, if data was included in the decision.</p>	<input checked="" type="checkbox"/> N/A
Comment:				

Documentation provided on assessment findings weight: 1.000	<input checked="" type="checkbox"/> The program uploads all rubric and support information to support the claims in the assessment findings along with detailed instructions on the assessment process and data analysis.	<input checked="" type="checkbox"/> The program uploads all rubric and support information to support the claims in assessment findings.	<input checked="" type="checkbox"/> The program did not upload the data to support assessment claims in the assessment findings.	<input checked="" type="checkbox"/> N/A
Comment:				
Analysis of Assessment is complete weight: 1.000	<input checked="" type="checkbox"/> The program completed assessment findings for each component identified, and provided a comprehensive summary of each assessment measure identified in the report.	<input checked="" type="checkbox"/> The program completed the assessment findings for each component and provided a summary for each assessment measure.	<input checked="" type="checkbox"/> The program did not provide a completed assessment findings for each component, nor did they complete the summary for each measure.	<input checked="" type="checkbox"/> N/A
Comment:	<p>the program talked about using a performance day portfolio - but the need for curriculum assessment is still a thing</p>			
Improvement narratives are selected with intentionality weight: 1.000	<input checked="" type="checkbox"/> The program identified Improvement Narratives that appear to move the program forward and see the bigger picture than only the specific program curriculum options	<input checked="" type="checkbox"/> The program used the provided Improvement Narratives and selected options that made sense to the objectives and issues within the assessment.	<input checked="" type="checkbox"/> The program did not use any improvement narratives, or the ones chosen are not aligned with assessment results.	<input checked="" type="checkbox"/> N/A
Comment:				
Student Performance Review weight: 1.000	<input checked="" type="checkbox"/> The program described and provided a detailed account of Student performance Review activities. Data evidence provided and detailed.	<input checked="" type="checkbox"/> The program provided the schedule and a brief description of Student Performance Review with data of the results.	<input checked="" type="checkbox"/> The program did not provide complete explanation on Student Performance Review nor did they provide data results.	<input checked="" type="checkbox"/> N/A
Comment:	<p>the students involved with pre-engineering partnered with physics and mathematics to create a meaningful event.</p>			
Senior Showcase weight: 1.000	<input checked="" type="checkbox"/> The program had all senior students participate in Senior Showcase and provided a detailed explanation of their expectation and the presentations presented.	<input checked="" type="checkbox"/> The program described the Senior showcase activities and provided some evidence of what was presented.	<input checked="" type="checkbox"/> Little to no content of Senior showcase was provided.	<input checked="" type="checkbox"/> N/A
Comment:				
Co Curricular activities weight: 1.000	<input checked="" type="checkbox"/> The program detailed the activities of LEAD and other co-curricular programing that was provided throughout the year. They provided numerous events for students.	<input checked="" type="checkbox"/> The program provided a listing of LEAD events and activities provided.	<input checked="" type="checkbox"/> The program provided little to no description of the Co-curricular activities provided throughout the year.	<input checked="" type="checkbox"/> N/A
Comment:	<p>Lead events pertaining to the content were not hosted over the academic year.</p>			
Faculty, alumni, and Student accomplishments weight: 1.000	<input checked="" type="checkbox"/> The program provided detail updates on successes on Students, Alumni and Faculty with added information explaining the kinds of success that were experienced.	<input checked="" type="checkbox"/> The program provided a listing of information on Students, Alumni, and faculty accomplishments.	<input checked="" type="checkbox"/> The program provided little to no data on students, alumni, faculty accomplishments.	<input checked="" type="checkbox"/> N/A
Comment:				