

**TO:** The Faculty of the College of Engineering

**FROM:** The Faculty of the School of Engineering Education

**RE:** Clarification to General Education Requirement: BS degree in Interdisciplinary Engineering Studies (IDES)

The Faculty of the School of Engineering Education has approved the attached program grade acceptance clarification. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**Summary of Proposed Changes:**

This EFD seeks to accomplish the following action:

Language clarification: Clarify results of EFD 38-18 action which prohibited the use of pass/no-pass course grading for the University general education requirement, clarifying a note in the general graduation requirement section.

**Detailed Degree Requirements:**

See attachment.

**Current Requirements:**

Based on EFD 38-18. See attachment.

**Effective Date:**

*Effective immediately*, as the language clarification is intended to be understood as less restrictive in nature to student progression.

**Reason:**

EFD 38-18 updated the IDES program requirements to distinguish IDES program interpretation for credit acceptance of general education courses. New language inserted in graduation requirement section can be unintentionally interpreted as restrictive to courses eligible for credit to an IDES student plan of study. The removal of the note in the graduation requirement should eliminate confusion, and be less unintentionally restrictive.



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Donna Riley, Kamyar Haghighi Head Professor  
of Engineering Education

**Actual**

**Degree Requirements for  
Bachelor of Science (BS) Degree in  
Interdisciplinary Engineering Studies**

*(Not ABET Accredited)*

Definition	Credits
<p><b><i>First-Year Engineering Program</i></b></p> <ul style="list-style-type: none"> <li>▪ If the common first-year program in engineering is changed, the BS requirements will be changed to reflect these changes.</li> </ul>	29-33
<p><b><i>Communications</i></b></p> <ul style="list-style-type: none"> <li>▪ Com 11400 or equivalent. Must select a course that satisfies the Purdue University Foundational Learning Outcome in Oral Communication, and satisfies 3 credits of the general education program.</li> <li>▪ Recommendation: take Com 11400 as part of the FYE program.</li> </ul>	3 counted in FYE program
<p><b><i>English</i></b></p> <ul style="list-style-type: none"> <li>▪ ENGL 10600 or 10800. Must select a course that satisfies the Purdue University Foundational Learning Outcomes in Information Literacy and in Written Communication. This requirement satisfies 3 or 4 credits of the Engineering general education program.</li> <li>▪ Recommendation: take ENGL 10600 or 10800 as part of the FYE program.</li> </ul>	3 or 4 counted in FYE program
<p><b><i>General Education</i></b></p> <ul style="list-style-type: none"> <li>▪ Students must take any course selected for a letter grade and earn a C- or better in order to receive credit for meeting the Foundational Learning Outcomes and this General Education requirement [a unit level requirement]. The P/NP option is not available for this requirement.</li> <li>▪ A total of at least 24 credits are required - 6 or 7 of these credits for Com and ENGL are counted in the FYE program. The remaining credits must be chosen to satisfy the Purdue University Foundational Learning Outcomes in Humanities, Behavior/Social Science and Science, Technology &amp; Society.</li> <li>▪ At least 18 credits of the General Education program (including Com and ENGL) must be taken outside of the Colleges of Engineering, Science, and Technology. Courses from the Colleges of Engineering, Science and Technology used in the General Education Program may only be used to satisfy Purdue University Foundational Learning Outcomes in Humanities, Behavior/Social Science and Science, Technology &amp; Society (they cannot be used to add depth or non-technical breadth). If EPICS is used to satisfy the Science, Technology &amp; Society Outcome, three credits of EPICS are required. The engineering (at 20000 and higher level) and science credits used in the General Education program can also be used to satisfy the engineering requirements and MBSE science requirements, respectively, but credits are not double-counted for graduation.</li> <li>▪ At least 6 credit hours must come from courses at the 30000 level or above, or from courses with a required prerequisite in the same department.</li> <li>▪ Note: Individual plans of study may recommend particular general education courses.</li> </ul>	17-18
<p><b><i>Economics Selective</i></b></p> <ul style="list-style-type: none"> <li>▪ Take ECON 25100, ECON 25200, or IE 34300.</li> <li>▪ Credits for ECON 25100 or 25200 satisfy Purdue University Foundational Learning Outcomes in Behavior/Social Science and count in the General Education package.</li> <li>▪ Credits for IE 34300 count in Engineering.</li> </ul>	3-6

Definition	Credits
<p><b>Math, Basic Science and Engineering (MBSE)</b></p> <ul style="list-style-type: none"> <li>▪ Required sophomore mathematics.</li> <li>▪ Multivariate calculus (MA 26100), and linear algebra &amp; differential equations, MA 26200 or (MA 26500 &amp; 26600), or equivalent.</li> </ul>	8-10
<p><b>Sophomore Science Selective</b></p> <ul style="list-style-type: none"> <li>▪ ENE approved selective. (May not be the same course used as FYE Science Selective)</li> </ul>	3-4
<p><b>Statistics Selective</b></p> <ul style="list-style-type: none"> <li>▪ ENE approved statistics course from the Department of Statistics or approved engineering statistics course. The engineering courses count towards the required 30 credits in engineering. Statistics courses count towards the MBSE requirements.</li> <li>▪ Engineering: Minimum 30 credits at 20000+ level, of which at least 15 credits are at 30000 + level. Maximum number of credits in any one engineering discipline is 24.</li> <li>▪ <i>Note: It is the student's responsibility to see that all prerequisites are met.</i></li> </ul>	3-counted elsewhere
<p><b>Required Engineering Core</b></p> <ul style="list-style-type: none"> <li>▪ IDE 30100 (no substitutions)</li> </ul>	1
<p><b>Engineering Design Selective</b></p> <ul style="list-style-type: none"> <li>▪ Three credits of engineering design.</li> <li>▪ Must be approved by School of Engineering Education.</li> </ul>	3
<p><b>Elective Engineering Courses</b></p> <ul style="list-style-type: none"> <li>▪ Courses selected by the student with the aid of an adviser.</li> <li>▪ Must be approved by School of Engineering Education.</li> </ul>	26
<p style="text-align: right;"><b>Minimum Engineering</b></p> <p style="text-align: center;">Additional engineering, CS, mathematics or science courses as needed</p>	30
<p style="text-align: right;"><b>Minimum MBSE after FYE Program</b></p>	44
<p><b>Area</b></p> <ul style="list-style-type: none"> <li>▪ Additional courses selected to satisfy the student's educational objectives.</li> <li>▪ There is no minimum in the Area since more than 44 credits of MBSE courses may be taken.</li> <li>▪ A computer aided design (CAD) course is very highly recommended.</li> </ul>	
<p style="text-align: right;"><b>Maximum Area Credits</b></p>	29
<p style="text-align: right;"><b>Minimum Credits Required for Graduation</b></p>	120
<p><b>Other Graduation Requirements</b></p> <ul style="list-style-type: none"> <li>▪ All plans of study must be approved by the School of Engineering Education.</li> <li>▪ Courses selected for use on the approved plan of study must be taken for a letter grade. Students must take any course selected for a letter grade and earn a C- or better in order to receive credit for meeting degree requirements [a unit level requirement]. The P/NP option is not available for any course taken as part of degree requirements.</li> <li>▪ An overall Graduation Index of 2.0 or higher and a minimum GPA of 2.0 in the engineering courses at the 20000 level and higher included in the plan of study are required.</li> <li>▪ All other Purdue University graduation requirements must be satisfied.</li> </ul>	

**PROPOSED****Degree Requirements for Bachelor of Science  
(BS) Degree in Interdisciplinary Engineering Studies***(Not ABET Accredited)*

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