**Purdue Northwest Curriculum Document Coversheet**

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| **Document No:**  (According to [Instruction](http://faculty.pnw.edu/blog/curriculum-document-approval-procedures/)s[[1]](#footnote-1)) | CES 18-18 REV PREREQS ME | **Approval by Faculty Senate:**  (Leave Blank) | 3/8/2019 |
| **Proposed Effective Date** | Fall 2019 | **Date Reviewed by Senate Curriculum**  **Committee:**  (Leave blank) | 2/22/2019 |
| **Submitting Department:**  (Name of both Dept & College/School ) | Mechanical and Civil Engineering, School of Engineering, College of Engineering and Sciences | **Name(s) of Library Staff Consulted:**  (NA if not required) | NA |
| **Date Reviewed by Department** | January 18, 2019 |  |  |
| **Submission Date:**  (Date sent to College/School Curr Comm after Dept Review) | January 19, 2019 | **Will New Library**  **Resources Used?** | **Yes** **No**  Double-click to check Yes / No. |
| **Date Reviewed by College/School Curriculum Committee** |  | **Form 40 Needed?**  (Double-click one box.)  Registrar will complete Form 40 **after** Senate approval of document. | **Yes** New courses or any course change, check **YES**  **No** For **all other** curriculum matters, check **NO**. |
| **Contact Person(s):**  (Name & Title) | Chien-Chung Chen, Assistant Prof. and Chenn Zhou, Head, MCE |  |  |

Unless marked “Leave blank” all parts of this form must be filled in **before** sending to Secretary of the Faculty Senate.

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| **Task (check all that apply and fill out sections appropriate for each change).**  Program/Concentration Change or New Program/Concentration Proposal: Complete Section I, III, & IV  Minor Change or New Minor Proposal: Complete Section I (delete sections III & IV)  Certificate Change or New Certificate Proposal: Complete Section I (delete sections III & IV)  Course Change or New Course Proposal: Complete Section II (delete sections III & IV) |
| **Program name**. |
| **Degree name(s).** (If applicable.) |

## Section I: This section is for changes in programs, minors and certificates

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| **List the major changes in each program of study, minor or certificate.** |
| **Impact on Students.** (State “N/A” if proposal will not greatly affect students.) |
| **Impact on University Resources.** (State “N/A” if proposal will not require new resources, faculty or funds.) |
| **Impact on other Academic Units.** (State “N/A” if proposal will not affect other units.)(Include name of person in affected area discussed with) |

## Section II: This section is for changes in courses only

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| **Subject.** (Brief description of proposed change, addition or deletion.)  Changing the minimum prerequisite grade for all the required courses of ME curriculum to passing grade.  Revising the pre-req for ME 42900 as COM/ENGL 307. |
| **Justification.** (Briefly list main reasons for proposed change, addition or deletion.)  The faculty reviewed the curricula to ensure that all courses have the appropriate prerequisite course content and performance criteria. This will remove delays and help students make an orderly transition to graduation. |

Use the **Current** and **Proposed** spaces below for course changes only. Otherwise, mark “N/A”

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| **Current:** (Course changes: include entire present catalog information. Leave blank if new course)  Please see attached list | | **Proposed:** (Course changes: include entire new catalog information.)  Please see attached list |
| **Is this course also:** | **General Education** | **Currently Designated ExL (see** [**instructions[[2]](#footnote-2)**](http://faculty.pnw.edu/blog/curriculum-document-approval-procedures/)**)** |

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| **Course Objectives / Learning Outcomes.** (New courses only. List main outcomes. If lengthy, attach separate page.)  1.  2.  3. |
| **Impact on Students.** (State “N/A” if proposal will not greatly affect students.)  This change will help students by clarifying the necessary prerequisites. |
| **Impact on University Resources.** (State “N/A” if proposal will not require new resources, faculty or funds.)N/A |
| **Impact on other Academic Units.** (State “N/A” if proposal will not affect other units.) (Include name of person in affected area this was discussed with.) N/A |

(Boxes will expand and spill over onto next page to accommodate your typing.)

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| Course Title | Course Number | Credit Hours | Existing  Pre-requisites | Proposed Pre-requisites |
| Semester 3 |  |  |  |  |
| Engineering Drawing II | ME 11600 | 1 | CE/ME 11500 for level UG with minimum Grade of C- | UG level CE/ME 11500 |
| Basic Mechanics I: Statics | ME 27100 | 3 | MA 16300 for level UG with minimum Grade of C-AND  MA 16400 for level UG with minimum Grade of C-AND  PHYS 15200 for level UG with minimum Grade of C- | UG level MA 16300  AND  UG level MA 16400  AND  UG level PHYS 15200 |
| Semester 4 |  |  |  |  |
| Materials Science | MSE 20000 | 3 | (CHM 11500 for level UG with minimum grade of C-) | (UG level CHM 11500) |
| Mechanics of Materials (m) | CE 27300 | 3 | CE 27101/ME 27100 for level UG with minimum Grade of C-  AND  MA 26100 for level UG with minimum Grade of C- | UG level CE 27101/ME 27100  AND  MA 26100 |
| Basic Mech. II: Dynamics | ME 27500 | 3 | MA 26100 for level UG with minimum grade of C-  AND  CE 27101/ME 27100 for level UG with minimum Grade of C- | UG level MA 26100  AND  UG level CE 27101/ME 27100 |
| General Thermodynamics I | ME 30500 | 3 | MA 26100 for level UG with minimum grade of C-  AND  PHYS 26100 for level UG with minimum grade of C- | UG level MA 26100  AND  UG level PHYS 26100 |
| Semester 5 |  |  |  |  |
| Fluid Mechanics | ME 31200 | 3 | MA 26400 for level UG with minimum grade of C-  AND  CE/ME 27500 for level UG with minimum grade of C-  AND  ME 30500 for level UG with minimum grade of D- | UG level MA 26400  AND  UG level CE/ME 27500  AND  UG level ME 30500 |
| Fluid Mechanics Lab | ME 31300 | 1 | MA 26400 for level UG with minimum grade of C-  AND  CE/ME 27500 for level UG with minimum grade of C-  AND  ME 30500 for level UG with minimum grade of D-  Co-req: ME 31200 | MA 26400 for level UG  CE/ME 27500 for level UG  ME 30500 for level UG Co-req: ME 31200 |
| Kinematic Analytics & Design | ME 32000 | 3 | MA 26400 with a min grade of C-, ME 11600 with a min grade of C-, and CE/ME 27500 with a min grade of C- | MA 26400 for level UG, ME 11600 for level UG, and CE/ME 27500 for level UG |
| Dynamic of Physical Systems | ME 32500 | 3 | MA 26400 with a min grade of C-, ECE 20100 with a min grade of C-, and CE/ME 27500 with a min grade of C- | MA 26400 for level UG, ECE 20100 for level UG, and CE/ME 27500 for level UG |
| Mechanical Engineering Experimentation | ME34500 | 3 | CE/ME 27500 with a min grade of C-  CE 27300 with a min grade of C- | CE/ME 27500 for level UG  CE 273 for level UG |
| Semester 6 |  |  |  |  |
| Engineering Economics and Project Management | ME 31100 | 3 | MA 16400 for level UG with minimum grade of C | MA 16400 for level UG |
| Heat Transfer | ME 41600 | 3 | ME 30500 for level UG with minimum grade of C-  ME 31200 for level UG with minimum grade of C-  ME 31300 for level UG with minimum grade of C- | ME 30500 for level UG  ME 31200 for level UG  ME 31300 for level UG |
| Heat Transfer Lab | ME 41700 | 1 | ME 31300 for level UG with minimum grade of C- | ME 31300 for level UG |
| Semester 7 |  |  |  |  |
| Senior Engr. Design I | ME 42900 | 3 | COM/ENGL 30700, ME 30500, ME 31100, ME 31200, CE 27300, ME 32000, ME 32500 & MSE 20000 with minimum grade of C- | UG level ENGL 30700 |
| Machine Design I | ME 46100 |  | CE 27300 with a min grade of C-  ME 34500 with a min grade of C- | CE 27300 for level UG  ME 34500 for level UG |
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1. <http://faculty.pnw.edu/blog/curriculum-document-approval-procedures/> [↑](#footnote-ref-1)
2. <http://faculty.pnw.edu/blog/curriculum-document-approval-procedures/> [↑](#footnote-ref-2)