**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)) | COT 18-24 NEW MINOR MCET | **Approval by Faculty Senate:**  (Leave Blank) | 4-12-19 |
| **Proposed Effective Date** | Fall 2019 | **Date Reviewed by Senate Curriculum**  **Committee:**  (Leave blank) | 3-8-19 |
| **Submitting Department:**  (Name of both Dept & College/School ) | Engineering Technology College of Technology | **Name(s) of Library Staff Consulted:**  (NA if not required) |  |
| **Date Reviewed by Department** | November 6, 2018 |  |  |
| **Submission Date:**  (Date sent to College/School Curr Comm after Dept Review) | February 15, 2019 | **Will New Library**  **Resources Used?** | **Yes** **No**  Double-click to check Yes / No. |
| **Date Reviewed by College/School Curriculum Committee** | February 22, 2019 | **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) | Maged Mikhail Asst. Professor, Mechatronics Engineering Technology |  |  |

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**.  Minor in Industrial Robotics |
| **Degree name(s).** (If applicable.)  N/A |

**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.**  Industrial Robotics will be a new Minor offered through the Mechatronics Engineering Technology program. This minor will require that five (5) major courses of study be completed in the areas of robotics and automation for a total of 15 credits.   * ECET 15201 Alternating Current Circuits and Analysis OR ECET 21401 Introduction To Electricity And Electronics * ECET 26200 Programmable Logic Controller OR MET 38200 Controls and Instrumentation for Automation * MCET 38200 Programming Industrial Robots * MCET 48200 Robotic System Integration * MET 42000 Machine Design OR ECET49900 Electrical Engineering Technology3 [Titled: Applied Electronic Drives]   Note 1: This minor is open for any Purdue University Northwest student to take, given that all prerequisite coursework2 (or equivalent) is satisfied. Students pursuing Mechatronics Engineering Technology, Mechanical Engineering Technology and Electrical Engineering Technology programs have all prerequisite courses built into their existing programs of study and the five (5) major courses listed for the minor are either required or can be taken as the program electives allowing students in these three majors to achieve this minor taking only 120 credit hours.  Note 2: Additional prerequisite courses include:  For students taking ECET 26200, prerequisites ECET 10201, MA 14800, MA 14700 are required  For students taking MET 38200, prerequisites PHYS 22100, MA 10619, MA 14800, MA 14700 are required  For students taking MET 42000, prerequisites MET 21501, MET 21300, MET 21100, MET 11800 are required  Note 3: “ECET 49900 Electrical Engineering Technology” is a variable titled course that will be allowed toward the Industrial Robotics minor when offered as title “Applied Electronic Drives.” |
| **Impact on Students.** (State “N/A” if proposal will not greatly affect students.)  Any PNW student will have the option to earn the minor of an “Industrial Robotics minor” with their chosen degree. This is especially important for students in the Engineering Technology Department. This will allow them to be more marketable within industries that are focused on robotics and automation. |
| **Impact on University Resources.** (State “N/A” if proposal will not require new resources, faculty or funds.)  The Industrial Robotics minor is comprised of elective courses in engineering technology that are taught by credentialed ET faculty. Robots and other necessary industrial equipment are currently available for use in the ET department. |
| **Impact on other Academic Units.** (State “N/A” if proposal will not affect other units.)(Include name of person in affected area discussed with)  N/A |

1. <http://faculty.pnw.edu/blog/curriculum-document-approval-procedures/> [↑](#footnote-ref-1)