

NEW MINOR, STARTING SPRING 2020

MINOR in PROCESS CONTROL AND INSTRUMENTATION

Who: All Engineering Students who want to gain additional expertise in process control and instrumentation, beyond that provided by their current bachelors degree programs.

Why: To gain knowledge, enhance job opportunities, and have fun. Every industrial process depends on automatic control to function safely, efficiently and effectively. Wyoming industries in particular are looking for engineers with process control skills. Yet many engineering graduates received limited education and experience in this critical field and are not well-qualified for these jobs. This new ***Minor*** will help you develop and enhance your process control skills.

What: New 18 credit hour ***Minor*** that was developed specifically to meet the needs of Wyoming industries for engineering graduates who have interest and expertise in process control and instrumentation. No more than 6 hours of coursework taken for the minor may also count as required (non-elective) coursework toward a student's major.

Required Courses (5 courses, 12 hours)

- CHE 2005 Chemical Process Analysis (3 hr)
- CHE 2090 Practical Fundamentals of Process Control (2 hr) (*NEW COURSE*)
- CHE 3090 Applying Simulation to Dynamic Processes (1 hr) (*NEW COURSE*)
- CHE 4092 Controlling Process Systems (3 hr) (*NEW COURSE*)
- One of: CHE 4090 Process Dynamics and Control (3 hr), *or* EE 4620 Automatic Control Systems (3 hr), *or* EE 4621 Honors Automatic Control Systems (3 hr)

Approved Elective Courses (At least 6 hours)

- ES 2210 Electric Circuit Analysis (3 hr) - EE 2220 Circuits and Signals (4 hr)
- EE 3220 Signals And Systems (3 hr)
- ME 4020 Design of Mechanical/Electronic Systems (3 hr)
- COSC 4450 Computer Graphics (3 hr) - COSC 4765 Computer Security (3 hr)
- CHE 4972 Internship in Process Control Engineering (1-6 hr, max 6 hr) (*NEW COURSE*)

When: CHE 2090 will be first offered in Spring 2020 as CHE 4990 Topics: Practical Fundamentals of Process Control. The prerequisite for this course is a C or better in MATH 2205 but hurry! Enrollment is limited to 20 students.

How: Complete the Program Change Form to "Add a Minor". (Download the form from http://www.uwyo.edu/registrar/students/forms_and_petitions.html). Take the completed form to Ms. Elyse Johnson, Department of Chemical Engineering, Engineering Hall 4055.

Questions? For more details, contact Dr. David M. Bagley, Department of Chemical Engineering, bagley@uwyo.edu, 766-3186, Engineering Hall 3028, or Ms. Elyse Johnson, Department of Chemical Engineering, ejohns33@uwyo.edu, 766-2500, Engineering Hall 4055.