

INST 292 (Internship)

An internship is a formal agreement between the student, an employer, and the college resulting in practical work experience on a real job site. Internships may be paid or unpaid at the employer's discretion, but to receive credit for this internship course you must register and pay for it like any other college course.

Expectations and standards for the internship are entirely set by the employer. This is a pass-fail course, your status being solely determined by your supervisor's assessment of your performance.

Program Outcomes for Instrumentation and Control Technology (BTC)

#1 Communication

Communicate and express concepts and ideas across a variety of media (verbal, written, graphical) using industry-standard terms.

#2 Time management

Arrives on time and prepared to work; Budgets time and meets deadlines when performing tasks and projects.

#3 Safety

Complies with national, state, local, and college safety regulations when designing and performing work on systems.

#4 Analysis and Diagnosis

Analyze, evaluate, and diagnose systems related to instrumentation and control including electrical and electronic circuits, fluid power and signaling systems, computer networks, and mechanisms; Select and apply correct mathematical techniques to these analytical and diagnostic problems; Select and correctly use appropriate test equipment to collect data.

#5 Design and Commissioning

Select, design, construct, configure, and install components necessary for the proper function of systems related to instrumentation and control, applying industry standards and verifying correct system operation when complete.

#6 System optimization

Improve technical system functions by collecting data and evaluating performance; Implement strategies to optimize the function of these systems.

#7 Calibration

Assess instrument accuracy and correct inaccuracies using appropriate calibration procedures and test equipment; Select and apply correct mathematical techniques to these calibration tasks.

#8 Documentation

Interpret and create technical documents (e.g. electronic schematics, loop diagrams, functional diagrams, P&IDs, graphs, narratives) according to industry standards.

#9 Independent learning

Select and research information sources to learn new principles, technologies, and techniques.

#10 Job searching

Develop a professional resume and research job openings in the field of industrial instrumentation.

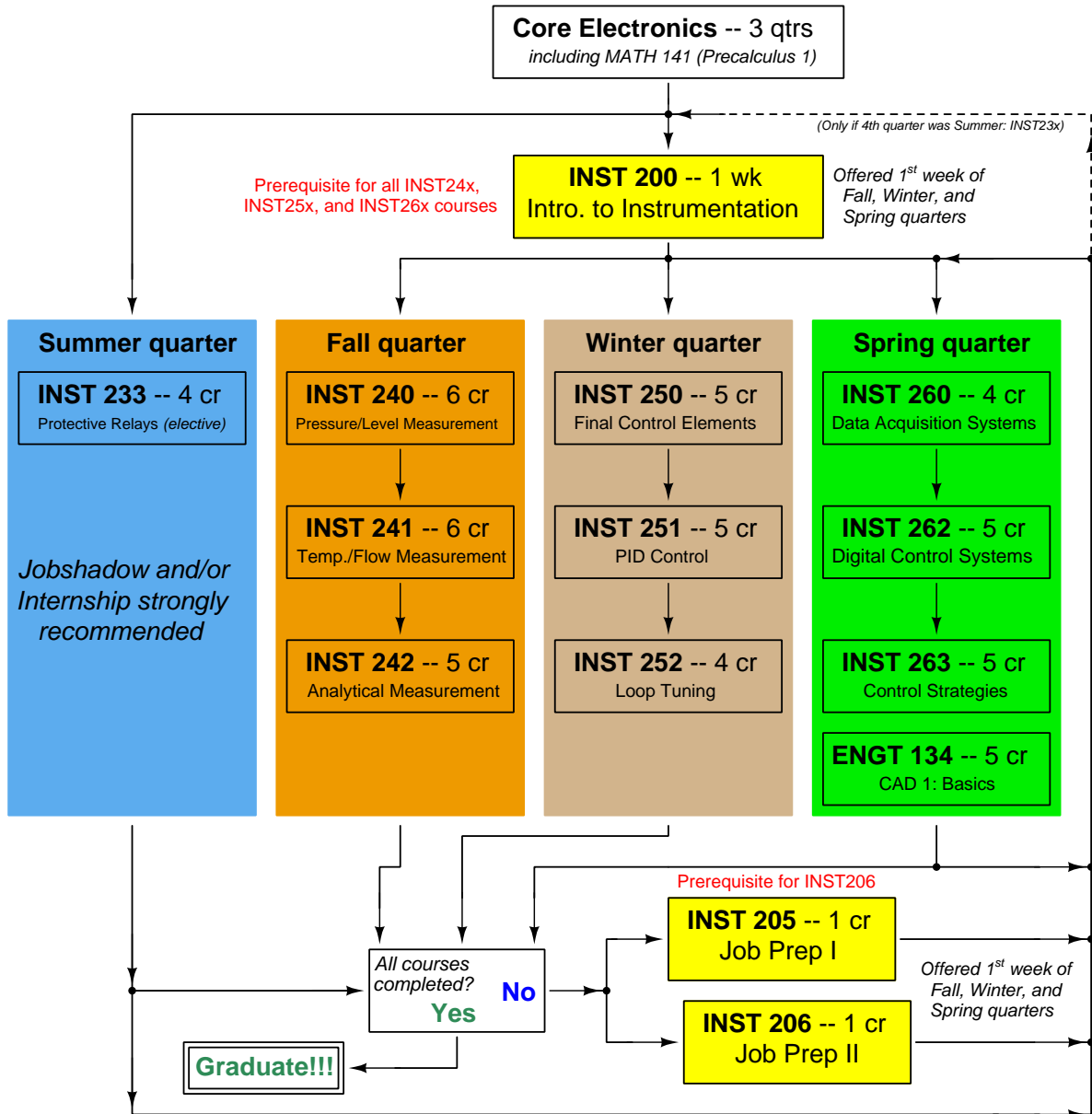
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INST 292 Course Outcomes

Each and every outcome in this course is assessed at a mastery level (i.e. 100% competence)

- Report to work on time, every day, abiding by all worksite policies on safety, attendance, attire, and general behavior. [Ref: Program Learning Outcomes #2, #3, and #10]
- Complete all assigned tasks in a timely and safe manner. [Ref: Program Learning Outcomes #2, #3, and #10]
- Communicate professionally with co-workers. [Ref: Program Learning Outcome #1]
- Demonstrate technical knowledge, skill, and attitude meeting or exceeding supervisor expectations. [Ref: Program Learning Outcomes #4, #5, #7, #8, and #9]

Sequence of second-year Instrumentation courses



The particular sequence of courses you take during the second year depends on when you complete all first-year courses and enter the second year. Since students enter the second year of Instrumentation at four different times (beginnings of Summer, Fall, Winter, and Spring quarters), the particular course sequence for any student will likely be different from the course sequence of classmates.

Some second-year courses are only offered in particular quarters with those quarters not having to be in sequence, while others are offered three out of the four quarters and must be taken in sequence. The following layout shows four typical course sequences for second-year Instrumentation students, depending on when they first enter the second year of the program:

Possible course schedules depending on date of entry into 2nd year



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Questions

Answers