

Industrial Technology

Industrial Technology Degrees and Certificates

- Aerospace Pathway Readiness Certificate
- Drafting Technology
- Electronics
- Engineering Technology
- Welding and Fabrication
- Welding and Fabrication

Industrial Technology Classes

INDT 100: Introduction to Aerospace Electronics

Introduction to careers in aerospace and related industries. Hands-on practice in basic electrical/electronic laboratory procedures including measurement, meters, use and maintenance of other tools and equipment. Emphasizes personal safety and maintaining a safe workplace.

Credits 3

Weekly Contact Hours 4

Meets Degree Requirements For
Restricted Elective

INDT 135: Metal Fabrication I

Designed to introduce commonly used metal fabrication techniques. Including but not limited to: measuring instrumentation, metal preparation, welding, machines (drills, saws, grinders, mills and lathes) and metal bending devices. Emphasis placed on the safe use of tooling, pre-planning and fabrication of structurally sound projects.

Credits 5

Weekly Contact Hours 7

Meets Degree Requirements For
Restricted Elective

Prerequisites

WELD 128 or WELD 131 or WELD 132 or concurrent enrollment in any of the three

INDT 136: Metal Fabrication II

Introduces the student to an intermediate level of fabrication techniques such as measurement instrumentation, metal preparation, welding, machines (drills, saws, grinders, mills and lathes), and metal benders. Emphasis is placed on the safe use of tooling, pre-planning, and fabrication of structurally sound projects.

Credits 5

Weekly Contact Hours 7

Meets Degree Requirements For
Restricted Elective

Prerequisites

[INDT 135](#) or industry experience with Instructor Permission

INDT 137: Metal Fabrication III

Designed to introduce commonly used sheet metal fabrication techniques, including but not limited to: measuring, shearing, bending, lay-out, metal preparation, welding, machines (drills, saws, grinders, brakes, shears) and hand-held specialized sheet-metal tooling. Emphasis placed on the safe use of tooling, pre-planning, proper fitment and the fabrication of structurally sound projects.

Credits 3

Weekly Contact Hours 5

Meets Degree Requirements For

Restricted Elective

Prerequisites

WELD 128 or WELD 131 or WELD 132 or appropriate industry experience (Instructor Permission)

INDT 164: Plant Maintenance

An overview of the proper maintenance associated with industrial and commercial equipment. Both mechanical and electrical hands-on skills will be included. Students will study bearing and bearing failures, vibration analysis, thermal imaging, specific plant safety hazards and the monetary benefits of a well executed maintenance strategy.

Credits 5

Weekly Contact Hours 7

Meets Degree Requirements For

Restricted Elective

INDT 196: Cooperative Work Experience

Intended to provide authentic experiences in the world of work by applying knowledge and skills learned in the classroom to a working environment. Variable credit class.

Credits 1-5

Weekly Contact Hours 25

Meets Degree Requirements For

Restricted Elective

INDT 250: Aerospace Electronics Capstone

Culmination of year-long certificate program including final project. Includes review for industry certification testing, guidance for compilation of simple portfolio for job-seeking purposes, and other job-seeking activities.

Credits 2

Weekly Contact Hours 2

Meets Degree Requirements For

Restricted Elective

INDT 276: Digital Design Capstone

Provides a capstone experience for the digital design program, including practical application of the design and computer skills learned within the degree, portfolio development, and industry familiarity.

Credits 3

Weekly Contact Hours 4

Meets Degree Requirements For

Restricted Elective

INDT 296: Cooperative Work Experience

Intended to provide authentic experiences in the world of work by applying knowledge and skills learned in the classroom to a working environment. Variable credit class.

Credits 1-5

Weekly Contact Hours 25

Meets Degree Requirements For

Restricted Elective