



Certificate in Mechatronics

Lead the next industrial revolution.

In our two semester, full-time, 36-credit Mechatronics certificate program, students will combine mechanical, electrical, computer, and software skills to prepare for positions operating and maintaining the electro-mechanical, computer-controlled systems commonly found in automated manufacturing environments.

The Mechatronics program is designed so participants may rotate between practice (workplace) and theory (classroom) throughout the program.

| Curriculum | | |
|------------|---|---|
| Mod 1 | | |
| BMM 181 | Introduction to Mechatronics | 3 |
| BMM 183 | Basic Electrical | 3 |
| BMM 140 | Principles in Manufacturing Mathematics | 3 |
| Mod 2 | | |
| BMM 185 | Hydraulics and Pneumatics | 3 |
| BMM 187 | Mechanical Drives and Kinematics | 3 |
| BMM 190 | Computer Aided Design (CAD) | 3 |
| Mod 3 | | |
| BMM 189 | Electrical Schematics | 3 |
| BMM 281 | Motor Control | 3 |
| BMM 287 | Industrial Robotics | 3 |
| Mod 4 | | |
| BMM 283 | Programmable Controllers | 3 |
| BMM 285 | Industrial Electrical Maintenance | 3 |
| BMM 289 | Machining and Pipe Fabrication | 3 |

Total Credits: 36

Goodwin University is a nonprofit institution of higher education and is accredited by the New England Commission of Higher Education (NECHE), formerly known as the New England Association of Schools and Colleges (NEASC).