



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.

Program Schedule

Tuesday and Wednesday: 8 a.m. - 4:30 p.m.

(includes 30-minute lunch)

Thursday: 8 a.m. - 12 p.m

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 Fitting	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).