

# UNIVERSITY of NEW HAMPSHIRE at MANCHESTER

**SYLLABUS: ET 781 Intro Automation Engineering, 4 Credits**

**COURSE DESCRIPTION:** Students are introduced to the topics needed to develop a good understanding of the basic principles of Automation Engineering. This introductory course will cover a wide variety of topics such as performance of sensors, actuators, motors and drives. PLC's and HMI, environmental controls, robots, machine vision systems and controls and system integration.

**REQUIRED TEXT:**

**Author:** Groover, Mikell

**Publisher:** Pearson

**Title & Edition:** Automation, Production Systems, and Computer-Integrated Manufacturing, 4/E

**ISBN-10:** 0133499618 **ISBN-13:** 9780133499612

**INSTRUCTORS:** Joe Cunningham [jcunningham@ccsnh.edu](mailto:jcunningham@ccsnh.edu)

**OFFICE HOURS:** By arraignment, please contact by e-mail

**LECTURE/LAB:** Attendance is required to succeed. Bring textbook to class. Take notes.  
If absent, be sure to check for assignments/handouts.

**ASSIGNMENTS:**

Homework assignments will be posted in blackboard along with date due.

Two weeks' notice of exams will be given, if a student needs to miss an exam for any reason the instructor must be notified prior to the class the exam is given. If an exam is missed without prior notification the student will receive a grade of zero (0) no exceptions. In the case of extreme circumstance when an exam is missed without prior notification the student **MUST** contact the instructor within 24 hours of the missed exam and submit a written document of why the exam was missed. The instructor will determine if a modified exam will be given in place of the missed exam.

Exams will be given during lecture time; if a student needs modified exam accommodations the instructor requires a document from the learning center stating accommodations (*See disability policy of Syllabus*). Any student who needs exams proctored outside of normally scheduled lecture room must make their own arraignments prior to the scheduled exam.

<b>GRADING:</b>	<b>Homework .....</b>	<b>15%</b>
	<b>Tests.....</b>	<b>50%</b>
	<b>Activity Reports .....</b>	<b>15%</b>
	<b>Final Exam (comprehensive, no exemptions) .....</b>	<b>20%</b>

**COMMENTS:**      If you have questions during the semester, please feel free to ask instructor.  
                              If you are experiencing difficulty, please let the instructor know early.

#### **ACADEMIC HONESTY:**

**In the preparation and presentation of any assigned work-including examinations, tests, quizzes, term papers, reports, themes and other written or oral exercises-every student shall conform to a strict standard of academic honesty. Any attempt to deceive a faculty member or to help another student to do so will be considered a violation of this standard. In all assignments, students must acknowledge the words and/or ideas of others taken from print or electronic media, whether a direct quotation or a paraphrase; any omission of this is dishonest. Cheating on examinations or tests consists of knowingly giving, receiving or using-or attempting to give, receive or use-unauthorized assistance during an examination or test. A faculty member may record a grade of "zero" for any assignment on which a student has plagiarized or cheated. For repeat offenses within a single course, the faculty member may record a grade of "F" for the course. Violations of this policy in multiple courses may result in dismissal from the College.**

#### **FOR STUDENTS WITH DISABILITIES:**

*Any student who feels s/he may need an accommodation based on the impact of a disability should contact the UNHM Disability Services Coordinator to discuss your specific needs. Please contact Donna Szekely donna.szekely@unh.edu to coordinate reasonable accommodations for students with documented disabilities.*