



(Certificate)

Instrumentation

ICCB Code: C 300F

Required Courses						
First Semester	Lec	Lab	Cr	RCC	Sem/Yr	Transfer
ENGT 100 Industrial Processes (formerly Mfg 120)	3	0	3			
ENGT 101 Motor Control Fundamentals (formerly Eltrn 109)	3	3	4			
ENGT 103 Fluid Power Fundamentals (formerly MecS 112)	2	2	3			
ENGT 104 CNC Fundamentals (formerly CIM 102)	2	2	3			
Subtotals	10	7	13			
Second Semester	Lec	Lab	Cr			
Draft 215 AutoCAD (or ENGT 102 (formerly Mfg 100)	2	3	3			
ENGT 105 Occupational Safety (formerly Ind S 100)	3	0	3			
ENGT 111 Motor Control Applications (formerly Eltrn 113)	3	3	4			
ENGT 120 Process Control Fundamentals (formerly Eltrn 201)	2	2	3			
ENGT 130 Power Transmission Fundamentals (formerly MecS 101)	3	2	4			
Subtotals	13	10	17			
Third Semester	Lec	Lab	Cr			
ENGT 210 PLC Fundamentals (formerly Eltrn 204)	3	2	4			
ENGT 212 Motor Control Systems (formerly Eltrn 151)	3	3	4			
ENGT 214 Motion Control Applications (formerly Eltrn 231)	2	2	3			
ENGT 220 Process Control Applications	2	2	3			
Subtotals	10	9	14			
Fourth Semester	Lec	Lab	Cr			
ENGT 211 PLC Applications	2	2	3			
ENGT 231 Piping Fundamentals (formerly Mec S 240)	1	2	2			
ENGT 299 Systems Integration (or ENGT 290 or ENGT 295)	1	4	3			
Subtotals	4	8	8			
Program Total 52						

*Students that are considering transfer options should take this course.

Other Graduation Requirements:

1. 2.00 (C) Grade Point Average for all courses at RCC
2. Constitution Exam, if not completed in Illinois High School

Constitution Exam Met:

Comments: _____

Connected Degree & Certificate(s):

- Engineering Technology AAS (Instrumentation Systems Specialty);
- Industrial Maintenance