



(Associate in Applied Science)

# Engineering Technology

## Electrical Systems Specialty

ICCB Code: AAS 3000

Required Courses						
<b>First Semester</b>	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			
Math 104 Technical Mathematics (or Math 110)*	4	0	4			
Subtotals	14	7	17			
<b>Second Semester</b>	Lec	Lab	Cr			
Draft 215 AutoCAD (or ENGT 102 formerly Mfg 100)	2	3	3			
Engl 110 Communicating in the Workplace (or Engl 101)*	3	0	3			
ENGT 105 Occupational Safety (formerly Ind S 100)	3	0	3			
ENGT 111 Motor Control Applications (formerly Eltrn 113)	3	3	4			
ENGT 130 Power Transmission Fundamentals (formerly MecS 101)	3	2	4			
Subtotals	14	8	17			
<b>Third Semester</b>	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			
Spch 120 Business & Professional speaking (or Spch 101)*	3	0	3			
Social Science Elective (recommend Econ 231)	3	0	3			
Subtotals	14	7	17			
<b>Fourth Semester</b>	Lec	Lab	Cr			
ENGT 211 PLC Applications	2	2	3			
ENGT 213 Robotic Fundamentals (formerly Robot 101)	2	2	3			
ENGT 215 Motion Control Systems (formerly Eltrn 232)	2	2	3			
ENGT 232 Rigging & Cranes (formerly MecS 230)	1	2	2			
ENGT 299 Systems Integration (or ENGT 290 or ENGT 295)	1	4	3			
General Education Elective (recommend Phys 100)	3	0	3			
Subtotals	11	12	17			
<b>Program Total 68</b>						

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

**Students must receive grade of "C" or better in Engl 101.**

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 Certificate(s):**

- Electrical Systems;
- Industrial Maintenance