

Revised Course Sequences for Electromechanical and Wind Energy Technology Programs

Recommended Course Sequence – Electromechanical Technology, Certificate in Applied Science

First Year—Fall Semester				First Year—Spring Semester			
Dept.		Course Title	Sem. Hrs.	Dept.		Course Title	Sem. Hrs.
CIS	108	Computer Fundamentals	3	ELM	210	PLC Fundamentals	3
				ENL	101 or 115	English Composition I or Technical Communications	3 (3)
				MTH	117	Math for Technicians	4
ENL	101	English Composition I	3	ELM	217	Industrial Maintenance Fundamentals	3
ELM	120	Fundamentals of Fluid Power	3 4	Elective		Mathematics Elective (MTH 115 or higher)	3
ELM	210	PLC Fundamentals	3	WTT	150	Industrial Motor Controls	4
WTT	110	Wind Safety and OSHA	4	WTT	160	Power Generation and Transmission	4
WTT	120	DC/AC Circuits	4				
Total Semester Hours			17 15	Total Semester Hours			17 15

Recommended Course Sequence – Wind Energy Technology, Certificate in Applied Science

First Year—Fall Semester				First Year—Spring Semester			
Dept.		Course Title	Sem. Hrs.	Dept.		Course Title	Sem. Hrs.
ELM	120	Fundamentals of Fluid Power	3 4	ELM	217	Industrial Maintenance Fundamentals	3
ENL	101 or 115	English Composition I or Technical Communications	3 (3)				
WTT	101	Introduction to Maintenance Technology	2	ENL	101	English Composition I	3
WTT	110	Wind Safety and OSHA	4	Elective		Mathematics Elective (MTH 115 or higher)	3
				MTH	117	Math for Technicians	4
WTT	120	DC/AC Circuits	4	WTT	150	Industrial Motor Controls	4
				WTT	160	Power Generation and Transmission	4
Total Semester Hours			13 15	Total Semester Hours			17 15

Title: Revised Course Sequences for ELM and WTT
 Prepared by: Curtis Hakala
 Approved by Curriculum Committee: 11/6/17
 Approved by LOT:

Recommended Course Sequence – Wind Energy Technology, Associate in Applied Science Degree

First Year—Fall Semester				First Year—Spring Semester			
Dept.		Course Title	Sem. Hrs.	Dept.		Course Title	Sem. Hrs.
CIS	108	Computer Fundamentals	3	ELM	217	Industrial Maintenance Fundamentals	3
ELM	120	Fundamentals of Fluid Power	3 4			Mathematics Elective (MTH 115 or higher)	3
				MTH	117	Math for Technicians	4
WTT	101	Introduction to Maintenance Technology	2	WTT	150	Industrial Motor Controls	4
ENL	101 or 115	English Composition I or Technical Communications	3 (3)				
WTT	110	Wind Safety and OSHA	4	WTT	160	Power Generation and Transmission	4
WTT	120	DC/AC Circuits	4				
Total Semester Hours			16 15	Total Semester Hours			14-15

Second Year—Fall Semester				Second Year—Spring Semester			
Dept.		Course Title	Sem. Hrs.	Dept.		Course Title	Sem. Hrs.
ELM	218	Maintenance Applications	3	ELM	210	Introduction to PLC's	3
ENL	101	English Composition I	3	SSC	147	Understanding Human Diversity	3
PHS	115	Applied Physics	3	WTT	230	Supervisory Control and Data Acquisition	4
CIS	114	Introduction to Computer Applications and Concepts	3	WTT	260	Wind Turbine Troubleshooting and Repair	4
ELM	210	PLC Fundamentals	3	WTT or ELM	278 276	Wind Technology Internship II or Electromechanical Capstone	3 (3)
ELM	218	Maintenance Applications	3	Elective		Natural Science Elective	3
SSC	147	Understanding Human Diversity	3				
WTT	210	Wind Turbine Mechanical Systems	4				
Total Semester Hours			13 16	Total Semester Hours			14

Second Year—Summer Term			
Dept.		Course Title	Sem. Hrs.
WTT	270	Airfoil and Composite Repair	3
WTT	278	Wind Technology Internship II	3
ELM	276	Electromechanical Capstone	3
Total Semester Hours			3

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