

Energy Technologies

Student Name _____

Enrollment Date _____ Academic Year _____

Emplid _____ Scores: Math _____

Reading _____

Writing _____

CERTIFICATE – ENERGY EFFICIENCY AND ANALYSIS: 7-10

Total Credit Hours

Required Scores: Algebra–NA / Reading–85 / Writing–NA	Cr Hr	Grade
ACR 170 Heat Load/Duct Design <i>No prerequisite</i>	3	
Computer Literacy course or competency demonstrated by exam <i>Rec. CIS 100</i>	0-3	
EGY 240 Energy Efficiency and Analysis <i>Prereq: Consent of Instructor</i>	4	

CERTIFICATE – SOLAR / PHOTOVOLTAIC TECHNOLOGIES: 13

Total Credit Hours

Required Scores: Algebra–25 / Reading–NA / Writing–NA	Cr Hr	Grade
EET 154 Electrical Construction I <i>Coreq: EET 155</i>	2	
EET 155 Electrical Construction I Lab <i>Coreq: EET 154</i>	2	
EGY 230 Solar / Photovoltaic Technologies <i>Prereq: (ELT 110 and EET 154 and EET 155 and EET 252 and EET 253 and EET 250) or (electrical experience and Consent of Instructor)</i>	4	
ELT 110 Circuits I <i>Prereq: (MAT 65 or equivalent placement level) or Consent of Instructor</i>	5	

CERTIFICATE – WIND SYSTEMS TECHNOLOGIES: 14 Total

Credit Hours

Required Scores: Algebra–25 / Reading–NA / Writing–NA	Cr Hr	Grade
EGY 250 Wind / Turbine Technologies <i>Prereq: ELT 110 or Consent of Instructor</i>	4	
ELT 110 Circuits I <i>Prereq: (MAT 65 or equivalent placement level) or Consent of Instructor</i>	5	
IMT 150 Maintaining Industrial Equipment I <i>Coreq: IMT 151 or Consent of Instructor</i>	3	
IMT 151 Maintaining Industrial Equipment I Lab <i>Coreq: IMT 150 or Consent of Instructor</i>	2	

CERTIFICATE – ENERGY UTILITY TECHNICIAN: 16-19 Total

Credit Hours

Required Scores: Algebra – 25 / Reading – 85 / Writing – 64	Cr Hr	Grade
GEN 100 Introduction to College <i>No prerequisite</i>	1	
Computer Literacy course or competency demonstrated by exam <i>Rec. CIS 100</i>	0-3	
EET 150 Transformers <i>Prereq: (ELT 110 and ELT 114) with a grade of C or greater) or consent of Electrical Technology program advisor(s)</i> <i>Coreq: EET 151</i>	2	
EET 151 Transformers Lab <i>Prereq: (ELT 110 and ELT 114) with a grade of C or greater) or consent of Electrical Technology program advisor(s)</i> <i>Coreq: EET 150</i>	1	
EGY 170 Energy Utility Technologies <i>Prereq: (ELT 110 and EET 150 and EET 151) or (electrical experience and Consent of Instructor)</i>	4	
ELT 110 Circuits I <i>Prereq: (MAT 65 or equivalent placement level) or Consent of Instructor</i>	5	
IS 100 Introduction to Industrial Safety <i>No prerequisite</i>	3	

CERTIFICATE – OUTSIDE PLANT TECHNICIAN: 17-20 Total

Credit Hours

Required Scores: Algebra – 25 / Reading – 85 / Writing – 64	Cr Hr	Grade
GEN 100 Introduction to College <i>No prerequisite</i>	1	
Computer Literacy course or competency demonstrated by exam <i>Rec. CIS 100</i>	0-3	
EGY 120 Outside Plant Communications <i>Prereq: (ELT 110 and ETT 110) or (electrical experience and Consent of Instructor)</i>	4	
ELT 110 Circuits I <i>Prereq: (MAT 65 or equivalent placement level) or Consent of Instructor</i>	5	
ETT 110 Voice & Data Installer Level I <i>Prereq: Basic physics/electricity courses are recommended but not required</i>	4	
IS 100 Introduction to Industrial Safety <i>No prerequisite</i>	3	

CERTIFICATE – ENERGY EFFICIENCY ELECTRICAL CONTROLS TECHNICIAN: 22 Total Credit Hours

Required Scores: Algebra – 25 / Reading – 80 / Writing – 64	Cr Hr	Grade
GEN 100 Introduction to College <i>No prerequisite</i>	1	
EET 154 Electrical Construction I <i>Coreq: EET 155</i>	2	
EET 155 Electrical Construction I Lab <i>Coreq: EET 154</i>	2	
EET 250 National Electrical Code <i>Prereq: ((EET 154 and EET 155 and EET 252 and EET 253) or (EET 254 and EET 255) with a grade of C or greater) or consent of Electrical Technology program advisor(s)</i>	4	
EET 252 Electrical Construction II <i>Prereq: EET 154 or Consent of Instructor</i> <i>Coreq: EET 253</i>	2	
EET 253 Electrical Construction II Lab <i>Coreq: EET 252</i>	2	
EGY 220 Energy Efficiency Electrical Controls <i>Prereq: (ELT 110 and EET 154 and EET 155 and EET 252 and EET 253 and EET 250) or (electrical experience and Consent of Instructor)</i>	4	
ELT 110 Circuits I <i>Prereq: (MAT 65 or equivalent placement level) or Consent of Instructor</i>	5	

(RELATED) CERTIFICATE – Voice and Data Wiring Installer Level I: 15 Total Credit Hours

Required Scores: Algebra–NA / Reading–85 / Writing–NA	Cr Hr	Grade
Computer Literacy <i>Rec. CIS 100</i>	3	
EET 154 Electrical Construction I <i>Coreq: EET 155</i>	2	
EET 155 Electrical Construction I Lab <i>Coreq: EET 154</i>	2	
ETT 110 Voice & Data Installer Level I <i>Prereq: Basic physics/electricity courses are recommended but not required</i>	4	
ETT 112 Basic Electrical Theory: Telenetworking <i>No prerequisite</i>	3	
ETT 113 Basic Electrical Theory Lab <i>Coreq: ETT 112</i>	1	

ASSOCIATE IN APPLIED SCIENCE DEGREE – ENERGY TECHNOLOGIES: 61-65 Total Credit Hours

Required Scores: Algebra – 25 / Reading – 85 / Writing – 74	Cr Hr	Grade
General Education:		
ENG 101 Writing I <i>Prereq: Appropriate writing placement score or ENC 91</i>	3	
Heritage / Humanities / Foreign Languages <i>Prereq: See Compass / ACT score requirement</i>	3	
MAT 110 Applied Mathematics (or MAT 105 or higher level mathematics (excluding MAT 120)) <i>Prereq: MAT 65 or equivalent as determined by KCTCS placement examination</i>	3	
Oral Communication <i>Prereq: See Compass / ACT score requirement</i>	3	
PHY 171 Applied Physics <i>Prereq: (MA 108 or (MAT 116 or greater) or Equivalent math placement score) or Consent of Instructor</i>	4	
Science <i>Prereq: See Compass / ACT score requirement</i>	(3)	
Social Interaction <i>Prereq: See Compass / ACT score requirement</i>	3	
Technical Core:		
GEN 100 Introduction to College <i>No prerequisite</i>	1	
BAS 160 Introduction to Business <i>No prerequisite</i>	3	
Computer Literacy course or competency demonstrated by exam <i>Rec. CIS 100</i>	0-3	
EET 150 Transformers <i>Prereq: (ELT 110 and ELT 114) with a grade of C or greater) or consent of Electrical Technology program advisor(s) Coreq: EET 151</i>	2	
EET 151 Transformers Lab <i>Prereq: (ELT 110 and ELT 114) with a grade of C or greater) or consent of Electrical Technology program advisor(s) Coreq: EET 150</i>	1	
EGY 120 Outside Plant Communications <i>Prereq: (ELT 110 and ETT 110) or (electrical experience and Consent of Instructor)</i>	4	
EGY 170 Energy Utility Technologies <i>Prereq: (ELT 110 and EET 150 and EET 151) or (electrical experience and Consent of Instructor)</i>	4	
ELT 110 Circuits I <i>Prereq: (MAT 65 or equivalent placement level) or Consent of Instructor</i>	5	
ETT 110 Voice & Data Installer Level I <i>Prereq: Basic physics/electricity courses are recommended but not required</i>	4	
IS 100 Introduction to Industrial Safety <i>No prerequisite</i>	3	
Technical Electives:		
Any course listed below OR in the certificates listed above (not including courses in the technical core) OR as approved by the program coordinator	16	
COE 199 Cooperative Education (up to 8 credit hours) <i>Prereq: Completion of at least 12 credit hours in the Associate in Applied Science Degree, diploma or certificate program of study and/or marketable skills in the area in which the student is enrolled, and minimum cumulative grade point average (GPA) of 2.0</i>		
DFT 122 Introduction to Computer Aided Drafting <i>Prereq: (CAD 102 with a grade of C or greater) or Approval of Program Coordinator</i>		

Developmental Courses: Once students complete and pass a developmental course with a grade of 'C' or higher, they have the option of retesting or moving into the next level of developmental. Once students have completed and passed ALL levels of Developmental, they can be placed into General Education courses, including College Algebra, and are not required to retest.

Developmental Math	Cr Hr
MAT 55 – Pre-Algebra <i>Compass score 24-41 in Pre-Algebra</i>	3
MAT 65 – Basic Algebra <i>Compass score 16-30 in Algebra</i>	3
MAT 120 – Intermediate Algebra <i>Compass score 31-35 in Algebra</i>	3
MAT 100 – College Algebra Workshop <i>Compass score 36-49 in Algebra / ACT 19-21 - enroll concurrent in College Algebra (MAT 150)</i>	2
Developmental Writing	
ENC 90 – Foundations of College Writing I <i>Compass score 26-38</i>	3
ENC 91 – Foundations of College Writing II <i>Compass score 39-73</i>	3
Developmental Reading	
RDG 20 – Improved College Reading <i>Compass score 49-69</i>	3
RDG 30 – Reading for the College Classroom <i>Compass score 70-82</i>	3
RDG 41 – Reading Laboratory <i>Compass score 83-84</i>	1

I have reviewed this advising sheet with my advisor and understand course requirements and preferred sequence of courses necessary to complete a credential. Also, I do understand that there may be course changes with future curriculum revisions that may affect a change in course requirements listed on this sheet.

I understand that: 1) the Energy Utility Technician certificate prepares me for a career that requires utility pole climbing and working outside; 2) it is a requirement of a utility lineman position to maintain a commercial drivers license (CDL), and I must thus meet the CDL age requirement in the state I am hired at the time of employment; and, 3) employment in the field of energy utilities may be prohibited if I have a prior felony or DUI conviction, or if my weight exceeds utility equipment load limits of 275 pounds.

Student: _____
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