Recommended Sequence of Courses
First Semester – Spring

EEM 117	AC/DC Circuits I	4
EEM 165	Residential/Commercial Wiring	4
		Total 8

Second Semester – Summer

EEM 107	Industrial Computer Techniques	2
EEM 118	AC/DC Circuits II	4
		Total 6

Third Semester – Fall

BCT 140	Commercial Wiring	3
		Total 3

Fourth Semester – Spring

BCT 141	Fixtures and Installation	3
EEM 140	National Electrical Code	3
		Total 6

Fifth Semester – Summer

IMT 210	Basic Industrial Work Skills I	3
IMT 211	Basic Industrial Work Skills II	3
		Total 6

Electrician: Industrial

Certificate in Applied Science
Credit Requirements: 34 Semester Credit Hours
Day

The Electrician: Industrial certificate program prepares you for employment as an industrial maintenance electrician. Emphasis is placed on electrical/electronic theory and industrial electrical equipment such as motors, transformers, motor control systems, drive systems and programmable controllers. Special emphasis is placed on developing troubleshooting skills.

Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses
First Semester – Fall

BCT 140	Commercial Wiring	3
EEM 117	AC/DC Circuits I	4
		Total 7

Second Semester – Spring

BCT 118	AC/DC Circuits II	4
EEM 131	Solid State Devices	4
		Total 8

Third Semester – Summer

EEM 107	Industrial Computer Techniques	2
EEM 217	AC/DC Machines with Electrical Codes	4
EEM 221	DC/AC Drives	3
		Total 9

Fourth Semester – Fall

EEM 140	National Electrical Code	3
EEM 151	Motor Controls I	4
EEM 251	Programmable Controllers	3
		Total 10

Electrician: Industrial

Certificate in Applied Science
Credit Requirements: 34 Semester Credit Hours
Evening

The Electrician: Industrial certificate program prepares you for employment as an industrial maintenance electrician. Emphasis is placed on electrical/electronic theory and industrial electrical equipment such as motors, transformers, motor control systems, drive systems and programmable controllers. Special emphasis is placed on developing troubleshooting skills.

Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses
First Semester – Spring

EEM 117	AC/DC Circuits I	4
		Total 4

Second Semester – Summer

EEM 107	Industrial Computer Techniques	2
EEM 118	AC/DC Circuits II	4
		Total 6

Third Semester – Fall

EEM 131	Solid State Devices	4
EEM 217	AC/DC Machines with Electrical Codes	4
		Total 8

Fourth Semester – Spring

EEM 151	Motor Controls I	4
		Total 4

Fifth Semester – Summer

BCT 140	Commercial Wiring	3
EEM 251	Programmable Controllers	3
		Total 6

Sixth Semester – Fall

EEM 140	National Electrical Code	3
EEM 221	DC/AC Drives	3
		Total 6

Esthetics

Certificate in Applied Science
Credit Requirements: 24 Semester Credit Hours

This certificate program teaches basic skin care, various facials, makeup application, hair removal, sanitation procedures and salon management practices.

Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old and can provide proof of 10th grade completion. (No correspondence schools.)

Recommended Sequence of Courses
First Semester

COS 151	Dermatology	3
COS 152	Hygiene and Sanitation	2
COS 153	Structure and Function of Human Systems	3
COS 156	Fundamentals of Massage	2
COS 158	Facial Treatments	2
COS 160	Electric Current Facial Treatments	1
COS 162	Hair Removal	1
		Total 14

Second Semester

COS 164	Basic Makeup and Application	3
COS 165	Business Practice	3
COS 221	Facial Practice I	2
COS 223	Facial Practice II	2
		Total 10

Note: Palmer Campus sequence of courses varies. See your advisor.

Golf Course Maintenance

Certificate in Applied Science
Credit Requirements: 23 Semester Credit Hours

The Golf Course Maintenance certificate program provides short-term training for individuals employed in golf course maintenance and those wishing to enter the field. The program is structured so that novice students can develop basic skills, and those individuals currently employed at golf courses can upgrade their skills through formal course work combined with on-the-job training. This on-the-job training consists of supervised work experience in which students are placed at a golf course for hands-on practice with chemical and fertilizer application equipment as well as training in routine maintenance practices. Students must see the Horticulture faculty for more information.

Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses
First Semester – Fall

HRT 110	Plant Form and Function	4
HRT 144	Plant Pests	3
HRT 241	Turf Management	3
		Total 10

Second Semester – Spring

HRT 125	Soils	4
HRT 240	Pesticides	4
		Total 8

Third Semester – Summer

CWE 112	Cooperative Work Experience	2
HRT 121	Commercial Irrigation	3
		Total 5

Horticultural Sustainability

Certificate in Applied Science
Credit Requirements: 17 Semester Credit Hours

The Horticultural Sustainability certificate addresses current environmental issues. Sustainable agriculture/horticulture has been practiced for many years, stressing the conservation of resources to maintain a sustainable environment. Students would be well-versed in new developments in landscape construction and current horticultural practices that minimize the impact on the environment.

Recommended Sequence of Courses
First Semester – Fall

HRT 106	Ornamentals	2
HRT 144	Plant Pests	3
HRT 153	Landscape Construction	3
		Total 8

Second Semester – Spring

HRT 107	Woody Ornamentals	2
HRT 125	Soils	4
HRT 169	Sustainability in Horticulture	3
		Total 9