



General Technology – Engineering Design Graphics

Associate in Applied Science

Architectural Drafting Option

Recommended Course Sequence

Students will complete 15-16 credits for the secondary technical specialty, including three required courses and one drafting option that meets their career goals.

First Semester – Fall

Fall 1

EGT 151	Introduction to CAD	Credit: 3
MAT 170	Algebra, Geometry and Trigonometry I	Credit: 3

Fall 2

AET 202	History of Architecture	Credit: 3
EGT 152	Fundamentals of CAD	<u>Credit: 3</u>
		Total: 12

Second Semester - Spring

Spring 1

AET 111	Architectural Computer Graphics I	Credit: 3
REQ GEN ED	Choose one of the four remaining Gen Ed requirements	Credit: 3

Spring 2

AET 221	Architectural Computer Graphics II	Credit: 4
EGT 130	Geometric Dimensioning and Tolerancing Applications	Credit: 3
EGT 252	Advanced CAD	<u>Credit: 3</u>
		Total: 16

Third Semester - Summer

EGT 172	Electronic Drafting	Credit: 2
EGT 220	Structural and Piping Application	Credit: 4
EGT 245	Principles of Parametric CAD	<u>Credit: 3</u>
		Total: 9

Fourth Semester - Fall

Fall 1

EGT 265	CAD/CAM Applications	Credit: 3
REQ GEN ED	Choose one of the three remaining Gen Ed requirements	Credit: 3

Fall 2

CET 120	Construction Materials	Credit: 3
EGT 251	Principles of CAD	<u>Credit: 3</u>
		Total: 12

Fifth Semester - Spring

Spring 1

EGT 258	Applications of CAD	Credit: 3
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REQ GEN ED	Choose one of the two remaining Gen Ed requirements	Credit: 3
Spring 2		
EGT 261	Model Design and Simulation	Credit: 4
REQ GEN ED	Choose one of the final remaining Gen Ed requirements	<u>Credit: 3</u>
		Total: 13
	TOTAL SEMESTER HOURS	62



General Technology – Engineering Design Graphics

Associate in Applied Science

Civil Drafting Option

Recommended Course Sequence

Students will complete 15-16 credits for the secondary technical specialty, including three required courses and one drafting option that meets their career goals.

First Semester – Fall

Fall 1

EGT 151	Introduction to CAD	Credit: 3
MAT 170	Algebra, Geometry and Trigonometry I	Credit: 3

Fall 2

EGT 152	Fundamentals of CAD	Credit: 3
REQ GEN ED	Choose one of the four remaining Gen Ed requirements	<u>Credit: 3</u>
		Total: 12

Second Semester - Spring

Spring 1

AET 111	Architectural Computer Graphics I	Credit: 3
REQ GEN ED	Choose one of the three remaining Gen Ed requirements	Credit: 3

Spring 2

AET 221	Architectural Computer Graphics II	Credit: 4
EGT 130	Geometric Dimensioning and Tolerancing Applications	Credit: 3
EGT 252	Advanced CAD	<u>Credit: 3</u>
		Total: 16

Third Semester - Summer

EGT 172	Electronic Drafting	Credit: 2
EGT 220	Structural and Piping Application	Credit: 4
EGT 245	Principles of Parametric CAD	<u>Credit: 3</u>
		Total: 9

Fourth Semester - Fall

Fall 1

EGT 257	Advanced Civil CAD	Credit: 3
EGT 265	CAD/CAM Applications	Credit: 3

Fall 2

CET 204	Fundamentals of Surveying	Credit: 4
EGT 251	Principles of CAD	<u>Credit: 3</u>
		Total: 13

Fifth Semester - Spring

Spring 1

EGT 258	Applications of CAD	Credit: 3
REQ GEN ED	Choose one of the two remaining Gen Ed requirements	Credit: 3

Spring 2

EGT 261	Model Design and Simulation	Credit: 4
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REQ GEN ED

Choose one of the final remaining Gen Ed requirements

Credit: 3

Total: 13

TOTAL SEMESTER HOURS

63



General Technology – Engineering Design Graphics Associate in Applied Science Electrical Drafting Option Recommended Course Sequence

Students will complete 15-16 credits for the secondary technical specialty, including three required courses and one drafting option that meets their career goals.

First Semester – Fall

Fall 1

EGT 151	Introduction to CAD	Credit: 3
MAT 170	Algebra, Geometry and Trigonometry I	Credit: 3

Fall 2

EGT 152	Fundamentals of CAD	Credit: 3
REQ GEN ED	Choose one of the four remaining Gen Ed requirements	<u>Credit: 3</u>
		Total: 12

Second Semester - Spring

Spring 1

AET 111	Architectural Computer Graphics I	Credit: 3
REQ GEN ED	Choose one of the three remaining Gen Ed requirements	Credit: 3

Spring 2

AET 221	Architectural Computer Graphics II	Credit: 4
EGT 130	Geometric Dimensioning and Tolerancing Applications	Credit: 3
EGT 252	Advanced CAD	<u>Credit: 3</u>
		Total: 16

Third Semester - Summer

EGT 172	Electronic Drafting	Credit: 2
EGT 220	Structural and Piping Application	Credit: 4
EGT 245	Principles of Parametric CAD	<u>Credit: 3</u>
		Total: 9

Fourth Semester - Fall

Fall 1

EGR 104	Engineering Technology Foundations	Credit: 3
EGT 265	CAD/CAM Applications	Credit: 3

Fall 2

EGT 251	Principles of CAD	Credit: 4
REQ GEN ED	Choose one of the two remaining Gen Ed requirements	<u>Credit: 3</u>
		Total: 13

Fifth Semester - Spring Spring Full

EET 113	Electrical Circuits I	Credit: 4
Spring 1		
EGT 258	Applications of CAD	Credit: 3
*REQ GEN ED	Choose one of the final remaining Gen Ed requirements	Credit: 3
Spring 2		
EGT 261	Model Design and Simulation	Credit: 4
*REQ GEN ED	Choose one of the final remaining Gen Ed requirements	<u>Credit: 3</u>
		Total: 14
TOTAL SEMESTER HOURS		64

* The final General Education requirement course can be taken either in Spring 1 or Spring 2.



General Technology – Engineering Design

Graphics

Associate in Applied Science

Mechanical Drafting Option

Recommended Course Sequence

Students will complete 15-16 credits for the secondary technical specialty, including three required courses and one drafting option that meets their career goals.

First Semester – Fall

Fall 1

EGT 151	Introduction to CAD	Credit: 3
MAT 170	Algebra, Geometry and Trigonometry I	Credit: 3

Fall 2

EGT 152	Fundamentals of CAD	Credit: 3
REQ GEN ED	Choose one of the four remaining Gen Ed requirements	<u>Credit: 3</u>
		Total: 12

Second Semester - Spring

Spring 1

AET 111	Architectural Computer Graphics I	Credit: 3
EGT 115	Engineering Graphics II	Credit: 4

Spring 2

AET 221	Architectural Computer Graphics II	Credit: 4
EGT 130	Geometric Dimensioning and Tolerancing Applications	Credit: 3
EGT 252	Advanced CAD	<u>Credit: 3</u>
		Total: 17

Third Semester - Summer

EGT 172	Electronic Drafting	Credit: 2
EGT 220	Structural and Piping Application	Credit: 4
EGT 245	Principles of Parametric CAD	<u>Credit: 3</u>
		Total: 9

Fourth Semester - Fall

Fall 1

EGT 265	CAD/CAM Applications	Credit: 3
REQ GEN ED	Choose one of the three remaining Gen Ed requirements	Credit: 3

Fall 2

EGT 251	Principles of CAD	Credit: 4
REQ GEN ED	Choose one of the two remaining Gen Ed requirements	<u>Credit: 3</u>
		Total: 13

Fifth Semester - Spring

Spring 1

EGT 258	Applications of CAD	Credit: 3
*EGR 170	Engineering Materials	Credit: 3
	or	
*REQ GEN ED	Choose one of the final remaining Gen Ed requirements	Credit: 3
Spring 2		
EGT 261	Model Design and Simulation	Credit: 4
*EGR 175	Manufacturing Processes	Credit: 3
	or	
*REQ GEN ED	Choose one of the final remaining Gen Ed requirements	<u>Credit: 3</u>
		Total: 13
TOTAL SEMESTER HOURS		64

*Choose between taking EGR 170 in Spring 1 or taking EGR 175 in Spring 2. The final General Education requirement will be taken in whichever term the EGR course is not taken.