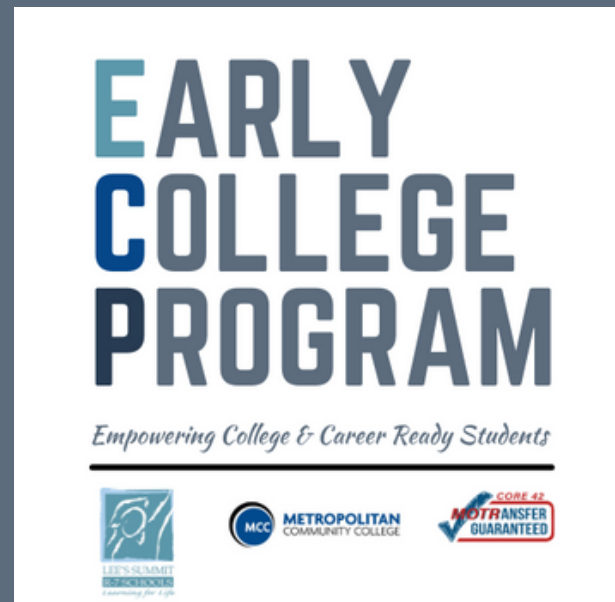


# Engineering Technology Pathway

- MCC CERTIFICATE
- OSHA CERTIFICATION
- COMPUTER AIDED DESIGN & DRAFTING CERTIFICATE
- ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)



## PROGRAM DESIGN

The ECP Engineering Technology & Computer Aided Design & Drafting pathway is designed so students can complete the MCC Certificate in the junior and senior years of high school. Students also have the option to pursue an Associate of Applied Science degree by completing additional coursework in general education classes.

## WHY ETECH?

Engineering technicians and technologists are in high demand and are key members of a team who focus on applying engineering & technology to solutions. They work with engineers, designers, physical scientists or planners. Drafting & design professionals use CADD programs to prepare production drawings & illustrations for different types of engineering firms. They help design building structures, civil projects, & mechanical manufacturing processes.

For more information go to:

[ecp.lsr7.org/program/engineering-technology-pathway](http://ecp.lsr7.org/program/engineering-technology-pathway)



## SAVE MONEY

Students can complete the certificate at half-price MCC tuition for a total cost of \$2,057.00. College 529 Savings \$\$ can be used to cover the cost of tuition. LSR7 provides tuition/textbook support for qualifying families.



## WORKFORCE READY SKILLS

High job demand, high wages! Students in this pathway will learn CADD programs, parametric modeling, architecture, machine design, civil design, and blueprint reading.




## SAVE TIME

Students can earn a college certificate or AAS while also earning high school credits. Students are ready to join the skilled workforce directly after high school.

Erin Barnett, Program Coordinator

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 (816)604-2114

# Course Sequence

Fall #1	Course	Institution	LSR7 Credit	College Credit	
				Hours	Cost
	Junior English	LSR7	0.5		
	Math	LSR7	0.5		
	Science	LSR7	0.5		
ETEC 152	Engineering Graphics & CADD 1	MCC	1	5	\$302.50
ETEC 268	Into to Structural Steel Design	MCC	0.5	3	\$ 181.50
EHSS 111	Into to Health & Safety for General Industry	MCC	0	1	\$ 60.50
<b>Spring #1</b>					
	Junior English	LSR7	0.5		
	Math	LSR7	0.5		
	Science	LSR7	0.5		
ETEC 269	Computer Aided Design II	MCC	0.5	4	\$ 242.00
ETEC 270	Inventor (1st 8-weeks)	MCC	0.5	3	\$ 181.50
ETEC272	Advanced Inventor (2nd 8-weeks)	MCC	0.5	3	\$ 181.50
<b>Fall #2</b>					
	Senior English	LSR7	0.5		
	American Government	LSR7	0.5		
	Personal Finance	LSR7	0.5		
ETEC 153	Descriptive Geometry	MCC	0.5	3	\$181.50
ETEC 210	Intro to Commercial Architecture	MCC	0.5	3	\$181.50
ETEC 211	Revit	MCC	0.5	3	\$181.50
<b>Spring #2</b>					
	Senior English	LSR7	0.5		
	MGI	LSR7	0.5		
	Elective	LSR7	0.5		
ETEC 170	Microstation	MCC	0.5	3	\$181.50
ETEC 271	Solidworks	MCC	0.5	3	\$181.50
				34	\$1,875.50
<b>Summer #1</b>					
Summer #1	Course	Institution	LSR7 Credit	Credit Hours	Cost
HIST 134/121	Course for high school MGI credit	MCC	0.5	3	\$ 181.50
<b>Fall #1</b>					
	Junior English	LSR7	0.5		
	Math	LSR7	0.5		
	Science	LSR7	0.5		
ETEC 152	Engineering Graphics & CADD 1	MCC	1	5	\$302.50
ETEC 268	Into to Structural Steel Design	MCC	0.5	3	\$ 181.50
EHSS 111	Into to Health & Safety for General Industry	MCC	0	1	\$ 60.50
<b>Spring #1</b>					
	Junior English	LSR7	0.5		
	Math	LSR7	0.5		
	Science	LSR7	0.5		
ETEC 269	Computer Aided Design II	MCC	0.5	4	\$ 242.00
ETEC 270	Inventor (1st 8-weeks)	MCC	0.5	3	\$ 181.50
ETEC272	Advanced Inventor (2nd 8-weeks)	MCC	0.5	3	\$ 181.50
<b>Summer #2</b>					
Summer #2	Course	Institution	LSR7 Credit	Credit Hours	Cost
	Personal Finance	LSR7	0.5		
ELECTIVE	PSYC 140, SOCI 160, PHIL 100,	MCC	0.5	3	\$ 181.50
<b>Fall #2</b>					
ENGL 101	Composition and Reading I	MCC	0.5	3	\$181.50
POLS 136	Introduction to US Nat'l Politics	MCC	0.5 (Am Gov)	3	\$181.50
MATH 120	College Algebra	MCC	0.5	3	\$181.50
ETEC 153	Descriptive Geometry	MCC	0.5	3	\$181.50
ETEC 210	Intro to Commercial Architecture	MCC	0.5	3	\$181.50
ETEC 211	Revit	MCC	0.5	3	\$181.50
<b>Spring #2</b>					
ENGL 215	Technical Writing	MCC	0.5	3	\$181.50
MATH 130	Trigonometry	MCC	0.5	3	\$181.50
COMM 100	Fundamentals of Speech	MCC	0.5	3	\$181.50
ETEC 170	Microstation	MCC	0.5	3	\$181.50
ETEC 271	Solidworks	MCC	0.5	3	\$181.50
<b>Summer #3</b>					
ETEC 290/295	Internship/Capstone	MCC		3	\$363.00
				61	\$3,872.00

Certificate Pathway

AAS Pathway



EXAMPLES ARE SUGGESTIONS AND PACE CAN BE ADJUSTED.