

# Engineering Clusters

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Engineering clusters are offered by several College of Engineering programs. The request for a cluster is initiated with the non-engineering student's advisor. Students must meet any prerequisites for the courses in the cluster.

## Industrial & Systems Engineering Cluster (21 Semester Hours)

ISE 224	INTRO INDUSTRIAL & SYSTEMS	3
ISE 321	ENGINEERING ECONOMY	3
ISE 340	OPERATIONS RESEARCH	3
ISE 390	PROB & ENGR STATISTICS I	3
ISE 391	PROB/ENGR STAT II	3
ISE 423	INTR STATISTICAL QUALITY CONTR	3
ISE 430	MANUF SYS & FACILITIES DESIGN	3
<b>Total Semester Hours</b>		<b>21</b>

## Mechanical Engineering Cluster (21 Semester Hours)

ENG 101	INTRO COMPUTING ENGINEERS	3
MAE 211	INTRO COMPUTATIONAL TOOLS	2
MAE 271	STATICS	3
MAE 272	DYNAMICS	3
MAE 310	FLUID MECHANICS I	3
MAE 341	THERMODYNAMICS I	3
MAE 370	MECHANICS OF MATERIALS	4
<b>Total Semester Hours</b>		<b>21</b>

## Electrical Systems Cluster (20 Semester Hours)

ENG 101	INTRO COMPUTING ENGINEERS	3
EE 213	ELECTRICAL CIRCUIT ANALYSIS I	3
EE 315	INTRO ELECTRONIC ANAL & DESIGN	3
EE 316	ELE CIRCUITS & ELTRNC DSGN LAB	1
EE 382	ANALY METH CONTINUOUS TIME SYS	3
EE 383	ANALY METH MULTIVARIABLE	3
EE 384	DIG SIGNAL PROCESS LAB	1
EE 386	INTRO CONTROL/ROBOTIC SYS	3
<b>Total Semester Hours</b>		<b>20</b>

## Circuits/Digital Electronics Cluster (20 Semester Hours)

EE 213	ELECTRICAL CIRCUIT ANALYSIS I	3
EE 223	DES & MOD ELEC CIR & SYS	3
EE 310	SOLID STATE FUNDAMENTALS	3
EE 315	INTRO ELECTRONIC ANAL & DESIGN	3
EE 316	ELE CIRCUITS & ELTRNC DSGN LAB	1
EE 382	ANALY METH CONTINUOUS TIME SYS	3
EE 384	DIG SIGNAL PROCESS LAB	1
EE 436	DIGITAL ELECTRONICS	3
<b>Total Semester Hours</b>		<b>20</b>

## Music Technology Cluster (23 Semester Hours)

ENG 101	INTRO COMPUTING ENGINEERS	3
EE 202	INTRO DIGITAL LOGIC DSGN	3
EE 213	ELECTRICAL CIRCUIT ANALYSIS I	3

EE 223	DES & MOD ELEC CIR & SYS	3
EE 315	INTRO ELECTRONIC ANAL & DESIGN	3
EE 316	ELE CIRCUITS & ELTRNC DSGN LAB	1
EE 382	ANALY METH CONTINUOUS TIME SYS	3
EE 383	ANALY METH MULTIVARIABLE	3
EE 384	DIG SIGNAL PROCESS LAB	1
<b>Total Semester Hours</b>		<b>23</b>