

# Management of Information Technologies Minor

## For Students Not in the College of Engineering and Computing

18-20 credit hours

Note: This minor is designed for business students who need a solid foundation in computing or engineering technologies. Students choose one of the three separate tracks. **The Computer Science Track is for MIS majors only.**

### Computer Science Track (18)

Required Courses (9)	Choose One Management Elective: (3)
<b>ACC 361 (3)</b> Modeling Business Processes in Accounting Information Systems <i>Requires ACC 221, ACC 222, ISA 235</i>	<b>MGT 416 (3)</b> Leading Organizational Change <i>Requires MGT 291</i>
<b>CSE 174 (3)</b> Fundamentals of Programming and Problem Solving <i>Requires MTH 102 or equivalent</i>	<b>MGT 431 (3)</b> Logistics Management <i>Requires ISA 205/225 and MKT 291</i>
<b>CSE 271 (3)</b> Object-Oriented Programming <i>Requires CSE 174</i>	<b>Choose One Other Business Elective: (3)</b>
	<b>BLS 465 (3)</b> Ethics, Law, & Business <i>Senior standing and FSB core completion required</i>
	<b>ESP 481 (3)</b> Technology, Products & Ventures
	<b>ISA 365 (3)</b> Statistical Monitoring and Design of Experiments <i>Requires ISA 205/225 or STA 301, 363, or 368</i>
	<b>ISA 495 (3)</b> Managing the Intelligent Enterprise <i>Senior standing and FSB core completion required</i>
	<b>MGT 414 (3)</b> Employee Engagement and Motivation <i>Requires MGT 291</i>
	<b>MGT 415 (3)</b> Leadership and Learning <i>Requires MGT 291</i>
	<b>MGT 453 (3)</b> Quality Management Systems <i>Requires MGT 302</i>
<b>Choose One Computer Science Elective: (3)</b>	
<b>CSE 274 (3)</b> Data Abstraction and Data Structures <i>Requires CSE 174 and MTH 231 OR CSE 174 and MTH 122, MTH 251, and ECE 287</i>	
<b>CSE 278 (3)</b> Systems I: Introduction to Systems Programming <i>Requires CSE 271</i>	
<b>CSE 283 (3)</b> Data Communication and Networks <i>Requires CSE 271</i>	

### Computer Engineering Track (20)

Required Courses (14)	Choose One Other Business Elective: (3)
<b>CSE 174 (3)</b> Fundamentals of Programming and Problem Solving <i>Requires MTH 102 or equivalent</i>	<b>ACC 361 (3)</b> Modeling Business Processes in Accounting Information Systems <i>Requires ACC 221, ACC 222, ISA 235</i>
<b>CSE 271 (3)</b> Object-Oriented Programming <i>Requires CSE 174</i>	<b>BLS 465 (3)</b> Ethics, Law, & Business <i>Senior standing and FSB core completion required</i>
<b>ECE 287 (4)</b> Digital Systems Design	<b>ESP 481 (3)</b> Technology, Products & Ventures
<b>ECE 387 (4)</b> Embedded Systems Design <i>Requires ECE 287, CSE 153, or CSE 174</i>	<b>EGM 411 (3)</b> Statistical Monitoring and Design of Experiments <i>Requires ISA 205/225, STA 261 or 301, or ECE 345</i>
	<b>ISA 365 (3)</b> Statistical Monitoring and Design of Experiments <i>Requires ISA 205/225 or STA 301, 363, or 368</i>
	<b>ISA 495 (3)</b> Managing the Intelligent Enterprise <i>Senior standing and FSB core completion required</i>
	<b>MGT 414 (3)</b> Employee Engagement and Motivation <i>Requires MGT 291</i>
	<b>MGT 415 (3)</b> Leadership and Learning <i>Requires MGT 291</i>
	<b>MGT 453 (3)</b> Quality Management Systems <i>Requires MGT 302</i>
<b>Choose One Management Elective: (3)</b>	
<b>ISA 303 (3)</b> Enterprise Systems <i>Requires ISA 235</i>	
<b>ISA 401 (3)</b> Business Intelligence and Data Visualization <i>Requires ISA 245 or CSE 385</i>	
<b>MGT 416 (3)</b> Leading Organizational Change <i>Requires MGT 291</i>	
<b>MGT 431 (3)</b> Logistics Management <i>Requires ISA 205/225 and MKT 291</i>	

### Electrical Engineering Track (20)

Required Courses (14)	Choose One Other Business Elective: (3)
<b>CSE 174 (3)</b> Fundamentals of Programming and Problem Solving <i>Requires MTH 102 or equivalent</i>	<b>ACC 361 (3)</b> Modeling Business Processes in Accounting Information Systems <i>Requires ACC 221, ACC 222, ISA 235</i>
<b>ECE 205 (4)</b> Electric Circuit Analysis I <i>Requires PHY 192; MTH 251 or equivalent</i>	<b>BLS 465 (3)</b> Ethics, Law, & Business <i>Senior standing and FSB core completion required</i>
<b>ECE 287 (4)</b> Digital Systems Design	<b>ESP 481 (3)</b> Technology, Products & Ventures
<b>ECE 304 (3)</b> Electronics <i>Requires ECE 205; MTH 245 or 347</i>	<b>EGM 411 (3)</b> Statistical Monitoring and Design of Experiments <i>Requires ISA 205/225, STA 261 or 301, or ECE 345</i>
	<b>ISA 365 (3)</b> Statistical Monitoring and Design of Experiments <i>Requires ISA 205/225 or STA 301, 363, or 368</i>
	<b>ISA 495 (3)</b> Managing the Intelligent Enterprise <i>Senior standing and FSB core completion required</i>
	<b>MGT 414 (3)</b> Employee Engagement and Motivation <i>Requires MGT 291</i>
	<b>MGT 415 (3)</b> Leadership and Learning <i>Requires MGT 291</i>
	<b>MGT 453 (3)</b> Quality Management Systems <i>Requires MGT 302</i>
<b>Choose One Management Elective: (3)</b>	
<b>ISA 303 (3)</b> Enterprise Systems <i>Requires ISA 235</i>	
<b>ISA 401 (3)</b> Business Intelligence and Data Visualization <i>Requires ISA 245 or CSE 385</i>	
<b>MGT 416 (3)</b> Leading Organizational Change <i>Requires MGT 291</i>	
<b>MGT 431 (3)</b> Logistics Management <i>Requires ISA 205/225 and MKT 291</i>	