



Minors Checklist

For Students Following the:
2022-2023 catalog

Name:
Student ID:
Catalog Year:

COMPUTER FORENSICS MINOR (31 Hours)					
Course	Pre-req	Credits	Term	Grade	
INF 120	Elementary Programming (or placement)	MAT 102 or MAT 114 or placement	3		
CIT 130	Information Technology Fundamentals	MAT 101 or placement and ENG 101R or placement	3		
CIT 171	Introduction to Linux	ENG 101 or ENG 101R or Placement	1		
INF 284 OR	Introduction to Computer Networks	MAT 103 or higher & INF 110, INF 120 or CIT 130	3		
CIT 247	Networking Fundamentals	CIT 130 & CIT 171 & INF 284	3		
CYS 285	Cybersecurity Fundamentals	CIT 130 & CIT 171 & INF 284 or CIT 247	3		
CIT 371	Unix Systems	INF 120 & CIT 130 & CIT 171 & CIT 247 or INF 284	3		
CYS 430	Computer Forensics	CIT 480 only or CIT 371 & either CYS 285 or BIS 382	3		
JUS 101	Introduction to Criminal Justice		3		
JUS 204	Criminal Investigation		3		
JUS 320	Advanced Crime Scene Technology & Criminalistics	JUS 101 & JUS 204 & Sophomore Standing	3		
JUS 404	Evidence Preparation & Courtroom Testimony	JUS 101 & Sophomore Standing	3		

OFFICE USE ONLY
Approved Exceptions
Successful Completion of INF 120 CPLE
Network+ Certification
Cisco CEN Certification or CIT 247 Competency Exam
Security+ Certification
Linux+ Certification or Successful Completion of CIT 371 CPLE

COMPUTER INFORMATION TECHNOLOGY MINOR (22 Hours)					
Course	Pre-req	Credits	Term	Grade	
INF 110 OR	Introduction to Application Development		3		
INF 120 OR	Elementary Programming (or placement)	MAT 102 or MAT 114 or placement	3		
CSC 260	Object-Oriented Programming I	MAT 103 & INF 110 or INF 120 or CSC 270 or placement	3		
CIT 130	Information Technology Fundamentals	MAT 101 or placement & ENG 101R or placement	3		
CIT 171	Introduction to Linux	ENG 101 or ENG 101R or Placement	1		

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Approved Exceptions
Successful Completion of INF 120 CPLE
Successful Completion of CSC 260 CPLE

INF 284	Introduction to Computer Networks	MAT 103 and INF 110, INF 120 or CIT 130	3		
CIT 271 OR CIT 371	Windows Administration Unix Systems	INF 120 & CIT 247 or INF 284 INF 120 & CIT 130 & CIT 171 & CIT 247 or INF 284	3 3		
CIT 3xx-4xx			3		
ASE, CIT, CSC, CYS, DSC, or INF Elective			3		
ASE, CIT, CSC, CYS, DSC, or INF Elective			3		

Network+ Certification
Linux+ Certification or Successful Completion of CIT 371 CPLE

COMPUTER SCIENCE MINOR (24 Hours)					
Course		Pre-req	Credits	Term	Grade
INF 120	Elementary Programming (or placement)	MAT 102 or MAT 114 or placement	3		
CSC 260	Object-Oriented Programming I	MAT 103 & INF 110 or INF 120 or CSC 270 or placement	3		
CSC 360	Object-Oriented Programming II	CSC 260 & MAT 119 (≥ B-)	3		
CSC 362 OR CSC 364	Computer Systems Data Structures & Algorithms	CSC 360 CSC 360	3 3		
CSC 2xx-4xx			3		
CSC 2xx-4xx			3		
ASE, CIT, CSC, CYS, DSC, or INF Elective			3		
ASE, CIT, CSC, CYS, DSC, or INF Elective			3		

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Approved Exceptions
Successful Completion of INF 120 CPLE
Successful Completion of CSC 260 CPLE
Successful Completion of CSC 360 CPLE

DATA SCIENCE MINOR (22 Hours)					
Course		Pre-req	Credits	Term	Grade
DSC 101	Introduction to Data Science		1		
DSC 200	Data Wrangling	INF 120 or CSC 260 & INF 286, & STA 205 or STA 205R or STA 250 & pre-req or co-req of DSC 101 or INF 282	3		
DSC 311	Data Analytics & Visualization	DSC 200 & STA 250	3		
INF 282 OR CSC 350	Introduction to Databases Database Programming	MAT 102 (≥ C) or placement CSC 360	3 3		
INF 286	Introduction to Web Development	MAT 103 & pre-req or co-req of INF 110, INF 120, or CSC 260	3		

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Successful Completion of INF 286 CPLE

STA 250	Probability and Statistics I	MAT 129 or co-req of MAT 227	3		
SELECT 1 OF THE FOLLOWING PROGRAMMING COURSES:					
CIT 383	Scripting I	INF 120 & CIT 271 or CIT 371	3		
CSC 260	Object-Oriented Programming I	MAT 103 & INF 110, INF 120 or CSC 270	3		
CSC 270	Mathematics Software Programming	MAT 128 or MAT 129	3		
EGT 267	Programming for Engineering Applications	EGT 161 or EGT 162 or PHY 222	3		
STA 360	Statistical Computing	STA 305 or any 300-level STA course or Instructor Consent	3		
SELECT 1 OF THE FOLLOWING ELECTIVES (not taken in the Programming section above):					
CIT 383	Scripting I	INF 120 & CIT 271 or CIT 371	3		
CSC 260	Object-Oriented Programming I	MAT 103 & INF 110 or INF 120 or CSC 270	3		
CSC 270	Mathematics Software Programming	MAT 128 or MAT 129	3		
DSC 411	Data Mining	DSC 311 & CSC 364, & STA 250	3		
DSC 421	Big Data	DSC 411 & pre req or co-req of CSC 350	3		
EGT 267	Programming for Engineering Applications	EGT 161 or EGT 162 or PHY 222	3		
STA 314	Design and Analysis of Experiments	STA 305	3		
STA 360	Statistical Computing	STA 305 or any 300-level STA course or Instructor Consent	3		

Successful Completion of CSC 260 CPLE
Successful Completion of CSC 260 CPLE

GEOGRAPHIC INFORMATION SYSTEMS MINOR (19-20 Hours)					
Course	Pre-req	Credits	Term	Grade	
GEO 415	Cartography	Sophomore Standing	3		
GEO 418	Geographic Information Systems	Sophomore Standing	4		
GEO 419	Remote Sensing of Environment	Sophomore Standing	3		
GEO 518	Geographic Information Analysis	GEO 418	3		
SELECT 2 OF THE FOLLOWING:					
BIS 330	IT Project Management	BIS 275 or BIS 300	3		
CIT 472	Database Administration	INF 282 & CIT 271 & CSC 260 or CIT 383	3		
CSC 440	Software Engineering	CSC 402 & CSC 439 & Senior Standing	3		
CSC 450	Database Systems	CSC 350 & CSC 364	3		
CSC 480	Computer Graphics	CSC 364 & MAT 234	3		
ENV 408 w/ ENV 408L	Ecology of the City & Laboratory	BIS 304 & GEO 418 & ENV 408L (co-req)	4		
GEO 314	Maps & Map Interpretation	Sophomore Standing or Instructor Consent	3		
GEO 492	Directed Research: Geography	3 semester hours of geography & Instructor Consent	3		
GEO 592	Directed Research in Geography	Instructor Consent	3		
GLY 415	Earth Science Applications of GIS	Sophomore Standing	3		

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Approved Exceptions
OCA Oracle Certified Associate

INFORMATION SECURITY MINOR (31 Hours)					
Course	Pre-req	Credits	Term	Grade	

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Approved Exceptions

INF 120	Elementary Programming (or placement)	MAT 102 or MAT 114 or placement	3		
CIT 130	Information Technology Fundamentals	MAT 101 or placement & ENG 101R or placement	3		
CIT 171	Introduction to Linux	ENG 101 or ENG 101R or Placement	1		
INF 284	Introduction to Computer Networks	MAT 103 & INF 110 or INF 120 or CIT 130	3		
CYS 285	Cybersecurity Fundamentals	CIT 130 & CIT 171 & INF 284 or CIT 247	3		
CIT 371	Unix Systems	INF 120 & CIT 130 & CIT 171 & CIT 247 or INF 284	3		
STA 205	Statistical Methods	MAT 101 and ENG 101R or RDG 110 or placement	3		
OR STA 205R	Statistical Methods with Recitation		3		
OR STA 250	Probability & Statistics I	MAT 129 or MAT 227 (co req)	3		
BIS 300	Management Information Systems	Junior Standing or BUS 101 or BIS 275, STA 212 or STA 205 or STA 205R or STA 250, & BIS 101	3		
BIS 330	IT Project Management	BIS 275 or BIS 300	3		
BIS 382	Information Security Management	BIS 300 or equivalent	3		
SELECT 1 OF THE FOLLOWING:					
CYS 430	Computer Forensics	CIT 480 only or CIT 371 & either CYS 285 or BIS 382	3		
CYS 484	Network Security	INF 284 & CYS 285	3		
CYS 485	Advanced Cybersecurity	CYS 385	3		
CSC 482	Computer Security	CSC 362	3		
CSC 483	Cryptology	MAT 234 or CSC 362 or CSC 364	3		
CYS 3xx-4xx			3		

Successful Completion of INF 120 CPLE
Network+ Certification Security+ Certification Linux+ Certification or Successful Completion of CIT 371 CPLE
Successful Completion of STA 205 DSST
Successful BIS 300 DSST
CCNP Security Core Exam (350-701)

Students must earn a grade of "C-" or better and a 2.00 GPA in all courses that apply to the minor. Please consult with your advisor and the appropriate University Course Catalog for all other degree requirements.