Department of Computer Science

COLLEGE OF INFORMATICS
COMPUTATION ■ INFORMATION ■ COMMUNICATION

Bachelor of Science in:
Applied Software Engineering

For Students Following the:
2020-2021 catalog

Name:
Student ID:
Catalog Year:

SUPPORT COURSES (15 Hours)						OFFICE USE ONLY
Course		**Pre-req**	**Credits**	**Term**	**Grade**	**Approved Exceptions**
MAT 185	Introductory Discrete Mathematics	MAT 103	3			
STA 205 **OR**	Statistical Methods	MAT 101 and ENG 101R or RDG 110 or placement	3			**Successful Completion of STA 205 DSST**
STA 205R	Statistical Methods with Recitation		3			
PHI 310	Information Ethics	Sophomore Standing or Instructor Consent	3			
ENG 347	Technical Writing	ENG 102, HNR 102, or equivalent	3			
LDR 205	Human Relations in Organizations		3			

INFORMATICS CORE COURSES (24 Hours)						OFFICE USE ONLY
Course		**Pre-req**	**Credits**	**Term**	**Grade**	**Approved Exceptions**
INF 100	Orientation to College of Informatics	Freshman standing or Department Approval	1			
INF 201	Foundations of Informatics Professionals		1			
INF 120	Elementary Programming (or placement)	MAT 102 or placement	3			**Successful Completion of INF 120 CPLE**
INF 284	Introduction to Computer Networks	MAT 103 & INF 110 or INF 120 or CIT 130	3			
INF 286	Introduction to Web Development	MAT 103 & INF 110 or INF 120 or CSC 260 (pre-req or co-req)	3			**Successful Completion of INF 286 CPLE**
CIT 130	Information Technology Fundamentals	MAT 102 and ENG 101R or placement	3			
CSC 260	Object-Oriented Programming I	MAT 103 and INF 110, INF 120, or CSC 270	3			**Successful Completion of CSC 260 CPLE**
CSC 260L	Object-Oriented Programming Lab	CSC 260 (co-requisite)	1			
CSC 350	Database Programming	CSC 360	3			
CSC 360	Object-Oriented Programming II	MAT 119 (B- or better) & CSC 260	3			**Successful Completion of CSC 360 CPLE**

APPLIED SOFTWARE ENGINEERING CORE (21 Hours)						OFFICE USE ONLY
Course		**Pre-req**	**Credits**	**Term**	**Grade**	**Approved Exceptions**
ASE 220	Full-Stack Application Development	INF 120 & INF 286	3			

ASE 230	Server-Side Programming	INF 286	**3**			
ASE 285	Software Engineering & Sec. Fundamentals	ASE 220	**3**			
ASE 330	Human-Computer Interaction	ASE 230 or ASE 220	**3**			
ASE 420	Software Design	CSC 360	**3**			
ASE 456	Cross-Platform Development	ASE 220 & Junior Standing	**3**			
ASE 485	Applied Software Engineering Capstone	ASE 230, ASE 285, ASE 330, ASE 456, ASE 420, & CSC 350	**3**			

CS DEPARTMENT UPPER-LEVEL ELECTIVE (3 Hours)					OFFICE USE ONLY
Course		**Pre-req**	**Credits**	**Term**	**Grade**	**Approved Exceptions**
ASE/CIT/ CSC/CYS /DSC	3xx-4xx		**3**			

EXPERIENTIAL LEARNING REQUIREMENT (0-3 Hours)					OFFICE USE ONLY
If the course used for the experiential learning requirement is an ASE course and taken for 3 credit hours, it can also be used to fulfill the elective requirement above.					
Course		**Pre-req**	**Credits**	**Term**	**Grade**	**Approved Exceptions**
ASE 305 **AND**	ASE Department Peer Mentorship Training	Department Permission	**0-1**			
ASE 306	ASE Department Peer Mentorship	Department Permission	**0-2**			

OR

ASE 292 **OR**	Introductory Research Experience	Department Permission	**0-3**			
ASE 392 **OR**	Intermediate Research Experience	Sophomore Standing & Department Permission	**0-3**			
ASE 396 **OR**	Applied Software Engineering Practicum	ASE 456, Junior Standing, & Department Permission	**0-3**			
CEP 300	Cooperative Education		**1-3**			

Students must have a grade of "C-" or better to meet pre-requisites for all courses unless otherwise indicated. Students also must earn a grade of "C-" or better in all courses that apply to the major and a minimum 2.00 major GPA. Please consult with your advisor and the appropriate University Course Catalog for all other degree requirements.