

# Computer Information Systems

## Programming Specialist Hybrid E-Degree

### Semester Course Outline • 2020 – 2021



18 Months (4 Semesters) • Revised: 6/16/20

Associate of Applied Science (A.A.S.) Degree • Credits Required: 70

#### Fall Semester – 2020

Course Number	Course Title	Clock Hours	Credits
CIS 132	Intro to Computer Programming	45	3
CIS 136	Intro to Object-Oriented Programming	84	3
CIS 140	Database Design and SQL	45	3
CIS 141	Web Design and Maintenance	84	3
CIS 170	Web 2.0	84	3
<ul style="list-style-type: none"> <li>Selected Behavioral Science Course (Choose one)</li> <li>PSYC 100 – Psychology of Human Relations</li> <li>PSYC 101 – General Psychology *</li> </ul>		45	3
<b>Total</b>		387	18

#### Spring Semester – 2021

Course Number	Course Title	Clock Hours	Credits
CIS 115	IT Essentials	84	3
CIS 180	Computer Programming I	84	3
CIS 238	Advanced Object Oriented Programming	84	3
CIS 276	Web Applications – PHP	84	3
<ul style="list-style-type: none"> <li>Selected Communications Course (Choose one)</li> <li>COMM 101 – Communications and Career Strategies</li> <li>ENGL 101 – Composition * (CSS 100 – Career Search Strategies .5 credit)</li> <li>ENGL 202 – Writing for the Real World</li> <li>SPCM 101 – Fundamentals of Speech * (CSS 100 – Career Search Strategies .5 credit)</li> </ul>		45	3
<ul style="list-style-type: none"> <li>Selected Mathematics Course (Choose one)</li> <li>MATH 100 – Applied General Math</li> <li>MATH 101 – Intermediate Algebra</li> <li>MATH 114 – College Algebra *</li> </ul>		45	3
<b>Total</b>		426	18

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**Fall Semester – 2021**

Course Number	Course Title	Clock Hours	Credits
CIS 220	Computer Programming II	84	3
CIS 240	Mobile Application Development	84	3
CIS 272	Client Server Programming	84	3
CIS 273	Web Applications – ASP	84	3
<ul style="list-style-type: none"> <li>Selected Communications Course (Choose one)            COMM 101 – Communications and Career Strategies            ENGL 101 – Composition * (CSS 100 – Career Search Strategies .5 credit)            ENGL 202 – Writing for the Real World            SPCM 101 – Fundamentals of Speech * (CSS 100 – Career Search Strategies .5 credit)</li> </ul>		45	3
<ul style="list-style-type: none"> <li>Selected Social Science Course (Choose one)            ECON 105 – Leadership in the Global Workplace            ECON 201 – Principles of Microeconomics I *            SOC 100 – Introduction to Sociology *</li> </ul>		45	3
<b>Total</b>		426	18

**Spring Semester – 2022**

Course Number	Course Title	Clock Hours	Credits
CIS 243	Advanced Mobile Applications	84	3
CIS 255	Application Security	84	3
CIS 270	Intro to Database Programming	84	3
CIS 290	System Analysis and Design	70	2.5
CIS 291	Certifications	14	.5
CIS 299	Internship	240	4
<b>Total</b>		576	16

- Students will select a course in each of the areas listed to meet general education requirements. Courses marked with an asterisk (\*) can be transferred directly to the university system. Students should speak with an advisor before doing so.

Students who select to take transferable communications course ENGL 101 or SPCM 101, must also register for CSS 100 – Career Search Strategies for .5 credit. This curriculum is required for all Lake Area Tech graduates and is included in the COMM 101 course but is separate from the university system.