

Computer Information Systems Programming Specialist • January Start Semester Course Outline • 2020 – 2021

18 Months (4 Semesters) • Revised: 11/13/20

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



Spring Semester – 2021

| Course Number | Course Title | Clock Hours | Credits |
|--|------------------------|-------------|---------|
| CIS 115 | IT Essentials | 84 | 3 |
| CIS 180 | Computer Programming I | 84 | 3 |
| <ul style="list-style-type: none"> 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) | | 45 | 3 |
| <ul style="list-style-type: none"> Selected Mathematics Course (Choose one) MATH 100 – Applied General Math MATH 101 – Intermediate Algebra MATH 114 – College Algebra * | | 45 | 3 |
| <ul style="list-style-type: none"> Selected Social Science Course (Choose one) ECON 105 – Leadership in the Global Workplace ECON 201 – Principles of Microeconomics I * SOC 100 – Introduction to Sociology * | | 45 | 3 |
| Total | | 303 | 15 |

Fall Semester – 2021

| 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 240 | Mobile Application Development | 84 | 3 |
| <ul style="list-style-type: none"> Selected Behavioral Science Course (Choose one) PSYC 100 – Psychology of Human Relations PSYC 101 – General Psychology * | | 45 | 3 |
| Total | | 387 | 18 |

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Semester Course Outline • 2020 – 2021

Spring Semester – 2022

| Course Number | Course Title | Clock Hours | Credits |
|---------------|--------------------------------------|-------------|---------|
| CIS 238 | Advanced Object Oriented Programming | 84 | 3 |
| CIS 243 | Advanced Mobile Applications | 84 | 3 |
| CIS 255 | Application Security | 84 | 3 |
| CIS 270 | Intro to Database Programming | 84 | 3 |
| CIS 276 | Web Applications – PHP | 84 | 3 |
| CIS 290 | System Analysis and Design | 70 | 2.5 |
| CIS 291 | Certifications | 14 | .5 |
| Total | | 504 | 18 |

Fall Semester – 2022

| Course Number | Course Title | Clock Hours | Credits |
|--|---------------------------|-------------|---------|
| CIS 170 | Web 2.0 | 84 | 3 |
| CIS 220 | Computer Programming II | 84 | 3 |
| CIS 272 | Client Server Programming | 84 | 3 |
| CIS 273 | Web Applications – ASP | 84 | 3 |
| CIS 299 | Internship | 240 | 4 |
| <ul style="list-style-type: none"> • 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) | | 45 | 3 |
| Total | | 621 | 19 |

- 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.