

Associate in Science

COMPUTER PROGRAMMING & ANALYSIS

60 Credit Hours

College Credit Certificates

Information Technology Support Specialist 18 Credit Hours

Computer Programming Specialist 18 Credit Hours

Computer Programmer 33 Credit Hours



SCHOOL OF BUSINESS AND TECHNOLOGY

www.FSW.edu/sobt

2015 – 2016 Program Planning Worksheet / 2 Year Plan

NOTICE TO STUDENTS: This document is not to be considered an official program of study, rather a worksheet for preliminary planning purposes. Many courses have minimum grade and/or *prerequisite requirements* as outlined in the college catalog. Students should work with a Student Success Coordinator in the School of Business and Technology.

Student Name: _____ Student ID Number: _____

College Credit Certificate Eligibility:

IT Support Specialist 18 Credit Hours, Computer Programming Specialist 18 Credit Hours, & Computer Programmer 33 Credit Hours

AS DEGREE & CCC REQUIREMENTS

| General Education Requirements | Credit Hours | CCC Met ✓ | AS Met ✓ | Required Computer Programming & Analysis, AS Core Courses, Continued | Credit Hours | CCC Met Specialist ✓ | Programmer CCC Met ✓ | AS Met ✓ |
|--|--------------|----------------------------|----------------------------|---|---|----------------------------|----------------------------|-------------|
| ENC 1101 Composition I | 3 | | | COP 1822 Internet Programming HTML | 3 | | | |
| ENC 1102 Composition II | 3 | | | COP 2800 Java Programming | 3 | | | |
| SPC 1017 Fundamentals of Speech OR SPC 2608 Intro to Public Speaking | 3 | | | COP 2823 Advanced Web Development OR COP 2830 Internet Programming HTML II | 3 | | | |
| PHI 2100 Logic | 3 | | | COP 1170 Visual Basic I OR COP 1224 C++ OR COP 2360 C# Programming I** | 3 | | | |
| Gen Ed Mathematics* Recommended: MAC 1105 OR STA 2023 | 3 | | | GRD 1500 Graduation Certification Completion CCC, Programming Specialist | 0 | | | |
| Gen Ed Social Sciences* Recommended: ECO 2013 Macroeconomics | 3 | | | TOTAL CREDIT HOURS PROGRAMMING SPECIALIST, CCC | 18 | | | |
| TOTAL AS GEN ED CREDIT HOURS | 18 | | | COP 2171 Visual Basic II OR COP 2228 Advanced C++ OR COP 2362 C# Programming II** | 3 | | | |
| *Courses specified as Mathematics & Social Sciences should be selected from courses listed in the FSW College Catalog's General Education Program Guide. | | | | Specified Certificate Elective: CCC, Computer Programmer COP Prefix | 3 | | | |
| | | | | GRD 1500 Graduation Certification Completion CCC, Computer Programmer | 0 | | | |
| Required Computer Programming & Analysis, AS Core Courses <i>The 6 courses below satisfy the IT Support Specialist, College Credit Certificate</i> | Credit Hours | CCC Met Specialist ✓ | Programmer CCC Met ✓ | AS Met ✓ | TOTAL CREDIT HOURS COMPUTER PROGRAMMER, CCC | 33 | | |
| MAN 2021 Management Principles | 3 | | | | | | | |
| CGS 2108 Computer Applications with Flowcharting | 3 | | | | SLS 1331 Personal Business Skills OR SLS 1515 Cornerstone Experience | 3 | | |
| CTS 1133 A+ Software | 3 | | | | Required AS Elective | | | |
| CTS 1131 A+ Hardware | 3 | | | | 3 | | | |
| CIS 2321 Systems Analysis and Design | 3 | | | | Specified Elective: Any 1000 or 2000 level course with a COP or CTS Prefix | 3 | | |
| CNT 1000 Computer Networking Essentials | 3 | | | | TOTAL AS CORE CREDIT HOURS | 42 | | |
| COP 1000 Introduction to Computer Programming | 3 | | | | GRD 2000 Graduation AS Degree Completion | 0 | | |
| GRD 1500 Graduation Certification Completion CCC, IT Support Specialist | 0 | | | | TOTAL CREDIT HOURS AS, COMPUTER PROGRAMMING & ANALYSIS | 60 | | |
| TOTAL CREDIT HOURS IT SUPPORT SPECIALIST, CCC | 18 | | | **Important Explanation of Programming Language Sequence: The programming language sequence requires students to select <i>one language</i> and take the pair of courses in the sequence of that language. (Ex: COP 2360 and COP 2362) | | | | |

Notes:

COMPUTER PROGRAMMING & ANALYSIS

College Credit Certificates

Information Technology Support Specialist

Computer Programming Specialist

Computer Programmer

2015 – 2016 Suggested Course Sequencing / 2 Year Plan**AS, COMPUTER PROGRAMING & ANALYSIS 60 Credit Hours**

| First Year Fall Semester | Credits | Met √ | First Year Spring Semester | Credits | Met √ | First Year Summer Semester | Credits | Met √ |
|--|-----------|----------|--------------------------------|-----------|----------|---|----------|----------|
| ENC 1101 Composition I | 3 | | ENC 1102 Composition II | 3 | | Speech: SPC 1017 OR SPC 2608 | 3 | |
| CTS 1133 A+ Software | 3 | | CTS 1131 A+ Hardware | 3 | | Gen Ed Social Sciences Recommended: ECO 2013 Macroeconomics | 3 | |
| CGS 2108 Computer Applications with Flowcharting | 3 | | CNT 1000 Networking Essentials | 3 | | | | |
| SLS 1331 Personal Business Skills OR SLS 1515 Cornerstone Experience | 3 | | COP 1000 Intro. to Programming | 3 | | | | |
| Total | 12 | | Total | 12 | | Total | 6 | |

| Second Year Fall Semester | Credits | Met √ | Second Year Spring Semester | Credits | Met √ | Second Year Summer Semester | Credits | Met √ |
|---|-----------|----------|---|-----------|----------|---|----------|----------|
| COP 1822 Internet Programming HTML | 3 | | CIS 2321 Systems Analysis and Design | 3 | | Gen Ed Mathematics | 3 | |
| COP 2800 Java Programming | 3 | | COP 2823 Advanced Web OR COP 2830 HTML II | 3 | | MAN 2021 Management Principles | 3 | |
| COP 1170 Visual Basic I OR COP 1224 C++ OR COP 2360 C# FALL ONLY* | 3 | | COP 2171 Visual Basic II OR COP 2228 Advanced C++ OR COP 2362 C# II SPRING ONLY* | 3 | | GRD 2000 Graduation AS CPAN Degree Completion Submit Graduation Application by Deadline | 0 | |
| PHI 2100 Logic FALL ONLY* | 3 | | Specified Elective (COP or CTS Prefix) | 3 | | | | |
| Total | 12 | | Total | 12 | | Total | 6 | |

CCC, INFORMATION TECHNOLOGY SUPPORT SPECIALIST 18 Credit Hours

| First Year Fall Semester | Credits | Met √ | First Year Spring Semester | Credits | Met √ | First Year Summer Semester | Credits | Met √ |
|---|----------|----------|--------------------------------|----------|----------|--|----------|----------|
| CTS 1133 A+ Software | 3 | | CTS 1131 A+ Hardware | 3 | | CIS 2321 Systems Analysis and Design | 3 | |
| CGS 2108 Computer Applications with Flowcharting | 3 | | CNT 1000 Networking Essentials | 3 | | GRD 1500 Graduation Certification Completion Submit Graduation Application by Deadline | 0 | |
| | | | COP 1000 Intro. to Programming | 3 | | | | |
| Total | 6 | | Total | 9 | | Total | 3 | |

CCC, COMPUTER PROGRAMMING SPECIALIST 18 Credit Hours

| First Year Fall Semester | Credits | Met √ | First Year Spring Semester | Credits | Met √ |
|--------------------------|----------|----------|--------------------------------|----------|----------|
| CTS 1133 A+ Software | 3 | | CTS 1131 A+ Hardware | 3 | |
| | | | COP 1000 Intro. to Programming | 3 | |
| Total | 3 | | Total | 6 | |

| Second Year Fall Semester | Credits | Met √ |
|--|----------|----------|
| COP 1170 Visual Basic I OR COP 1224 C++ OR COP 2360 C# FALL ONLY* | 3 | |
| COP 1822 Internet Programming HTML | 3 | |
| COP 2800 Java Programming | 3 | |
| GRD 1500 Graduation Certification Completion Submit Graduation Application by Deadline | 0 | |
| Total | 9 | |

CCC, COMPUTER PROGRAMMER 33 Credit Hours

| First Year Fall Semester | Credits | Met √ | First Year Spring Semester | Credits | Met √ |
|--|----------|----------|--------------------------------|----------|----------|
| CTS 1133 A+ Software | 3 | | CTS 1131 A+ Hardware | 3 | |
| CGS 2108 Computer Applications with Flowcharting | 3 | | CNT 1000 Networking Essentials | 3 | |
| | | | COP 1000 Intro. to Programming | 3 | |
| Total | 6 | | Total | 9 | |

| Second Year Fall Semester | Credits | Met √ | Second Year Spring Semester | Credits | Met √ |
|---|----------|----------|---|----------|----------|
| COP 1822 Internet Programming HTML | 3 | | COP 2823 Advanced Web OR COP 2830 HTML II | 3 | |
| COP 2800 Java Programming | 3 | | COP 2171 Visual Basic II OR COP 2228 Advanced C++ OR COP 2362 C# II SPRING ONLY* | 3 | |
| COP 1170 Visual Basic I OR COP 1224 C++ OR COP 2360 C# FALL ONLY* | 3 | | Specified Elective (COP Prefix) | 3 | |
| | | | GRD 1500 Graduation Certification Completion Submit Graduation Application by Deadline | 0 | |
| Total | 9 | | Total | 9 | |

***Indicates course will be offered ONLY in the term listed**

Unless indicated as "ONLY", Courses are scheduled in the terms indicated above and may be offered more frequently.

IMPORTANT NOTICE TO STUDENTS: This document is not to be considered an official program of study, rather a worksheet for preliminary planning purposes. MANY COMPUTER COURSES ARE NOT OFFERED EVERY TERM. Many courses have minimum grade and/or *prerequisite requirements* as outlined in the college catalog. Students should work with a Student Success Coordinator in the School of Business and Technology.