# Computer Information Systems 

Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-5150
Academic Advisor, BB 132A, (801) 957-4990
www.slcc.edu/cis
Department Chair: Kim Cosby
Professors: Jimmy Chen, Gordon Frisbey, Susumu Kasai, Lorna
Wells, Bruce Worthen
Associate Professors: Paul Anstall, Robert Baird, Randy
Koziatek, Philip Nielson
Assistant Professor: Edward Walsh
Instructor: Dan Pope

## THE PROGRAM

The Computer Information Systems Associate of Applied Science program prepares students for professional careers in the information systems field as program designers, programmer/analysts or systems analysts. Graduates perform detailed program design, coding, testing, documentation and implementation of commercially oriented information systems. The program develops a student's ability to conceptualize, design and implement information systems.

The Department offers the following:

- Associate of Science transfer degree
- Associate of Applied Science Degree in Computer Information Systems with emphasis in Computer Programming and Design
- Associate of Applied Science Degree in Computer Infor ${ }^{-}$ mation Systems with emphasis in Web Programming and Development
- Associate of Applied Science Degree in Computer Information Systems with emphasis in Database Design, Management and Administration.
- Certificate of Completion in Business and Personal Computing.

The Computer Information Systems associate degree programs are accredited by the Association of Collegiate Business Schools and Programs (ACBSP). This accreditation represents the achievement of meeting the high national standards established for associate degree granting business programs.

General Education and elective courses provide training in oral and written communication and human relations skills. COMM 1010 is taught using group and team activities in the learning process to develop the student's interactive skills and to build human values and ethics.

These programs prepare students for professional careers in the information systems field as program designers, programmer/ analysts or systems analysts. Graduates perform detailed program design, coding, testing, documentation and implementation of commercially-oriented information systems. The program develops a student's ability to conceptualize, design and implement information systems. Job opportunities include:

- Computer and information systems managers
- Computer programmers
- Computer software engineers
- Computer support specialists
- Computer systems analysts
- Database administrators
- Database designers
- Market research analysts
- Network and computer systems administrators
- Network systems and data communications analysts
- Web programmer and developers


## TRANSFER INFORMATION

The Computer Information Systems Associate of Science degree prepares students for transfer to all four-year institutions. In addition, students transferring to Weber State University Computer Science Bachelor's degree program can take courses offered evenings at SLCC through the University Center. For further information contact the University Center at (801) 957-4990.

Preparing for transfer requires advance research and planning by students. Please contact the School of Business Academic Advisor, (801) 957-4323.

## GRADE REQUIREMENT

${ }^{*}$ In this program, students must complete CIS 1030 and CIS 1130 with a 3.0 grade or higher. In addition, students must maintain a 2.5 cumulative grade point average in all CIS courses. Students who do not maintain a 2.5 cumulative grade point average may not continue in the program without approval of the Division Chair. Grades less than 2.0 will not be credited toward graduation. Success highly depends upon students being able to type at least 35 words per minute. It is recommended that CIS students who need improvement take appropriate keyboarding and skill building courses.

## CERTIFICATION

To be successful in the computer industry students need broad, foundational problem solving skills provided by academic degrees that give breadth of knowledge to obtain employment as well as preparation for certification exams. Industry certifications are a very positive development in the computer field, but are intended to be a supplement to academic training, not a substitute for it. Many certification tests assume students have significant computer experience and are intended only to offer an in-depth examination of a specific version of software.

## PREPARATION NOTE

Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete a certificate or degree. The classes designed to assist students in reaching the skill level necessary to enter the certificate and degree programs are WRTG 0990 (College Preparatory Writing), and MATH 1010 (Intermediate Algebra) Placement testing will be done upon entry to the College unless students have had prior college-level experience.

## PREREQUISITES

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. Students without prerequisite class skills are at a disadvantage and may be required to repeat the course after satisfying the prerequisites.

Students who wish to take the CIS 1020 Computer Essentials challenge exam are advised to review information at www.slcc.edu/cis. An $80 \%$ or higher is required on each section of the test. Once an exam is passed a $P$ is posted to the transcript and credit is awarded.

## ELECTIVE OPTIONS

Cooperative Education is the College's program for recognizing and rewarding new learning associated with study-related employment in a business, industrial or government work environment. Credit earned from CIS 2000 is applied toward graduation requirements as CIS elective credit. CIS major and sophomore standing are requirements for Cooperative Education in the CIS department.

The Department strongly recommends that students enhance their employment opportunities through Cooperative Education as soon as skills permit, to complement the certificate or degree. Contact CO-OP Office at (801) 957-4014.

## CLASS AVAILABILITY

The semester in which courses are taught is listed below. Students should check the semester class schedule for day/ evening availability and modifications caused by varying enrollment.

## COMPLETING THE LISTED REQUIREMENTS BELOW RESULTS IN RECEIVING AN ASSOCIATE OF SCIENCE TRANSFER DEGREE*

(minimum 62 hours required)
The Computer Information Systems Associate of Science Degree prepares students for transfer to a four-year institution in Information Systems, Computer Science, or related fields. Graduates are trained in a broad range of skills in information systems to prepare a student for transfer for further study towards a bachelor or other advanced degrees.

## TRANSFER INFORMATION

The AS degree is designed to transfer to all four-year institutions. Preparing for a smooth transition to a four-year college or university requires advance research and planning by students. Requirements for four-year universities and colleges are subject to change; ongoing planning is essential. A course articulation exists with Weber State University Computer Science Depart ${ }^{-}$ ment. This program is offered in the evening at SLCC through the University Center. Two tracks offered include: Computer and Network Security

## SOFTWARE ENGINEERING

Transfer requirements are available at the University Center in the Construction Trade Building Room 272, or in the Student Center Room 240 in the Transfer Center files.

GENERAL EDUCATION REQUIREMENTS
PREREQUISITES
CORE SKILLS
COMPOSITION
ENGL 1010 Intro To Writing
ENGL 2010 Interm Writing $\quad 3$ A $\quad$ ENGL 1010
quantitative literacy
*MATH $1210 \quad$ Calculus I $4 \quad$ A 1060
w/C or better or appropriate CPT score
*MATH 1220 or 1040 for Weber State University Transfer.
AMERICAN INSTITUTIONS (3 CREDITS)
ECON 1740 Econ Hist of US
3 A
RDG 0990 w/C or better or appropriate placement

HIST 1700 Amer Civilization

OR
POLS 1100 US Gov \& Politics
3 A
0990
w/C or better or appropriate placement

## INSTITUTIONAL REQUIREMENTS

lifelong wellness
HLAC _ 1 A none

## STUDENT CHOICE (3 CREDITS)

COMM 1010 is required for Weber State University.

## COMPUTER LITERACY

## DISTRIBUTION AREAS

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

| Biological Science (BS) | $3-4$ | A | RDG $0900 \mathrm{w} / \mathrm{C}$ <br> or better |
| :--- | ---: | :--- | :--- |
| Fine Arts (FA) | 3 | A | none |
| Humanities (HU) | 3 | A | none |
| Interdisciplinary (ID) | 3 | A | none |
| Physical Science (PS) | 3 | A | none |
| Social Science (SS) | 3 | A | none |

Interdisciplinary except CIS 1430.
See pp. 23-27 for options in each of these categories.

| MAJOR COURSE REQUIREMENTS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| *CIS | 1030 Obj-Oriented Pro I | 3 | F, Sp | CIS 1020 or concurrent |
| *CIS | 1130 Obj-Oriented Pro II | 3 | F, Sp | CIS 1030 |
| CIS | 1135 Obj-Ori Analy/Dsgn | 3 | F, Sp | CIS 1130 or concurrent |
| CIS | 1430 Intern/HTML Fndtls | 3 | F | CIS 1020 or competency |
| CIS | 2150 Comp Organization | 3 | F, Sp | CIS 1030 and CIS 1130 or concurrent |
| CIS | 2350 UNIX/Linux | 3 | F, Sp | CIS 1020 or comp |
| or |  |  |  |  |
| CIS | 2730 C++Prog. w/Objects | 3 | F, Sp | CIS 1135 |
| CIS | 2420 Ntwk Hard Conf | 3 | F | CIS 1430 |
| CIS | 2430 Web Programming | 3 | F, Sp | CIS 1430 |
| CIS | 2600 Fund of DB Mgmt | 3 | F, Sp | CIS 1030 or concurrent |

## ADDITIONAL TRANSFER REQUIREMENTS

In order to transfer to WSU upper division coursework, additional courses are required beyond the AS degree; they can be taken at SLCC prior to transferring to the WSU program. The 2 tracks are Network Security and Administration and Software Engineering.

| COURSE | CR3 | $\begin{gathered} \text { SEM } \\ \text { A } \end{gathered}$ | PREREQUISITES <br> CIS 1135 \& CIS 2730 |
| :---: | :---: | :---: | :---: |
| CS 2450 Software Engineering |  |  |  |
| or |  |  |  |
|  |  |  | CIS 2350 |
| CS 2430 Discrete Structures | 3 | Sp | CIS 1135 \& CIS 2730 |
| or |  |  |  |
|  |  |  | CIS 2350 |
| MATH 1210 Calculus I | 3 | A | MATH 1060 w/C or better |
| MATH 1040 Statistics | 3 | A | MATH 1010 w/C or better |
| or |  |  |  |
| MATH 1220 Calculus II | 3 | A | MATH 1210 w/C or better |

[^0]| SAMPLE SCHEDULE |  |  |  |
| :---: | :---: | :---: | :---: |
| FALL SEMESTER | SPRING SEMESTER |  |  |
| CIS 1030 3 | CIS | 1130 | 3 |
| CIS 1430 3 | CIS | 1135 | 3 |
| ENGL 1010 3 | CIS | 2430 | 3 |
| STUDENT CHOICE 3 | ENGL | 2010 | 3 |
| DISTRIBUTION 6 | MATH | 1210 | 4 |
| TOTAL 18 | TOTAL |  | 16 |
| 2ND FALL SEMESTER | 2ND SP | ING S |  |
| CIS 2420 3 | CIS | 2150 | 3 |
| CIS 2600 3 | CIS | 2350 | 3 |
| HLAC 1 | or |  |  |
| DISTRIBUTION 3-4 | CIS | 2730 | 3 |
| AMERICAN INST 3 | DIST |  | 9 |
| TOTAL 13-14 | TOTAL |  | 15 |

## ASSOCIATE OF APPLIED SCIENCE ${ }^{\text {CTE }}$ DEGREE IN COMPUTER INFORMATION SYSTEMS/COMPUTER PROGRAMMING AND DESIGN EMPHASIS

(minimum 66 hours required)
This emphasis is for professional careers in the information systems field. Opportunities include positions such as programmers, program designers, programmer/analysts or system analysts. Graduates are trained to perform detailed program designing, coding, testing, documentation and implementation of commercially oriented information systems.

GENERAL EDUCATION REQUIREMENTS

| COURSE <br> CORE SKILLS <br> COMPOSITION <br> ENGL 2100 Technical Wrtng | CR SEM | PREREQUISITES |
| :--- | :---: | :--- | :--- |

## distribution areas

Choose an additional six credit hours from at least two of the following distribution areas:

| Biological Science (BS) | $3-4$ | A | RDG $0900 \mathrm{w} / \mathrm{C}$ <br> or better |
| :--- | ---: | :--- | :--- |
| Fine Arts (FA) | 3 | A | none |
| Humanities (HU) | 3 | A | none |
| ${ }^{\text {I Interdisciplinary (ID) }}$ | 3 | A | none |
| Physical Science (PS) | 3 | A | none |
| Social Science (SS) | 3 | A | none |

*Except CIS 1430.
See pp. 23-27 for options in each of these categories.
MAJOR COURSE REQUIREMENTS

| COURSE | CR SEM | PREREQUISITES |  |  |
| :--- | :--- | :---: | :--- | :--- |
| BUS | 2200 Bus Communications | 3 | A | ENGL 1010 <br> w/C or better |
| *CIS | 1030 Obj-Oriented Pro I | 3 | F, Sp | CIS 1020 or <br> concurrent |
| *CIS | 1130 Obj-Oriented Pro II | 3 | F, Sp | CIS 1030 <br> CIS 1130 or <br> CIS |
| 1135 Obj-Ori Analy/Dsgn | 3 | F, Sp | concurrent <br> CIS 1020 or |  |
| CIS | 1430 Intern/HTML Fndtls | 3 | F | competency |
| CIS | 1520 Operating Systems | 3 | F, Sp | CIS 1020 or <br> competency |


| CIS 2150 Comp Organization | 3 | F, Sp | CIS 1030 and <br> CIS 1130 or <br> concurrent |
| :--- | :--- | :--- | :--- |
| CIS 2600 Fund of DB Mgmt <br> concurrent <br> CIS 2730 C++ Prog w/Objs <br> concurrent <br> CIS 2760 Java I | 3 | F, Sp | CIS 1030 or |
| Concurrent <br> CIS 2800 Bus Sys Design | 3 | F, Sp | CIS 1135 or |
|  | 3 | F, Sp | CIS 1135 or |
| *CIS 1030 | 3 | F, Sp | CIS 2600, and <br> CIS 2760 or |
| CIS 2730 |  |  |  |

*CIS 1030 and CIS 1130 must be completed with a B grade or better.
ELECTIVES (15 CREDITS)

| ACCT | 1110 Financial Acct I | 3 | A |
| :--- | ---: | :--- | :--- | none $\quad$ instructor's approval



> ASSOCIATE OF APPLIED SCIENCE ${ }^{\text {CTE }}$ DEGREE IN COMPUTER INFORMATION SYSTEMS WEB/PROGRAMMING AND DEVELOPMENT EMPHASIS
> (minimum 63 hours required)

This emphasis is for professional careers in the Web Programming and Development area of the information systems field. Work titles include web programmer, web designer and web engineer. Fundamentals of business as well as technical skills are emphasized, in order to utilize Web Programming and Development effectively in a business environment. The "business to consumer" and "business to business" paradigms are explored. Graduates are trained in the technical aspects of website management, preparation, development and implementation.

GENERAL EDUCATION REQUIREMENTS
COURSE
CR SEM
PREREQUISITES
CORE SKILLS
COMPOSITION
ENGL 1010 Intro to Wrtng 3 A pre-test

| QUANTITATIVE Studies <br> MATH 1010 Intrmd Algebra | 4 | A | MATH 0990 <br> w/C or better or <br> appropriate CPT <br> score |
| :--- | :---: | :--- | :--- |
| $\quad$OR <br> FIN <br> 1380 Financial Math | 3 | A | MATH 0990 <br> w/C or better or <br> appropriate CPT <br> score |
| COMmunication <br> COMM 1010 Elem of Eff Comm | 3 | A | none |
| HUMAN RELATIONs <br> MKTG 1010 Customer Serv <br> OR | 2 | A | none |
| MKTG 1960 Profsnlsm in Bus | 3 | A | none |

## DISTRIBUTION AREAS

Choose an additional six credit hours from at least two of the following distribution areas:

| Biological Science (BS) | $3-4$ | A | RDG $0900 \mathrm{w} / \mathrm{C}$ <br> or better |
| :--- | ---: | :--- | :--- |
| Fine Arts (FA) | 3 | A | none |
| Humanities (HU) | 3 | A | none |
| Interdisciplinary (ID) | 3 | A | none |
| Physical Science (PS) | 3 | A | none |
| Social Science (SS) | 3 | A | none |

Interdisciplinary: Recommend BUS 1050.
Social Sciences: Recommend ECON 1010.
See General Education section for options in each of these categories.

## MAJOR COURSE REQUIREMENTS

| cours |  | CR | SEM | PREREQUISITES |
| :---: | :---: | :---: | :---: | :---: |
| ACCT | 1110 Financial Acct I | 3 | A | none |
| ART | 1800 Digital Media Essentials | 4 | A | none |
| ART | 1810 Interm Photshp/Multimed | 2 | A | ART 1800 |
| *CIS | 1030 Obj-Oriented Pro I | 3 | F, Sp | CIS 1020 or comp |
| *CIS | 1130 Obj-Oriented Pro II | 3 | F, Sp | CIS 1030 |
| CIS | 1430 Intern/HTML Fndtls | 3 | F | CIS 1020 or competency |
| CIS | 1555 SQL Programming | 3 | F, Sp | CIS 10201055 or comp or concurrent |
| CIS | 2150 Computer Organization | 3 | F, Sp | CIS 1130 |
| CIS | 2350 UNIX/Linux | 3 | F, Sp | CIS 1020 or comp |
| CIS | 2420 Ntwk Hard Conf | 3 | Sp, F | CIS 1430 |
| CIS | 2430 Web Programming | 3 | Sp | CIS 2420 |
| CIS | 2470 JSP, Java Servlets | 3 | F, Sp | concurrent w/CIS 1135 <br> CIS 2430 and <br> CIS 1030 |
| MGT | 1100 Small Business Mgmt | 3 | A | none |
| ELECTIVES (8 CREDITS) |  |  |  |  |
| CIS | 1055 Database Design \& Proc | 3 | F, Sp | CIS 1020 |
| CIS | 1135 Obj-Orntd Analys/Design | 3 | A | CIS 1130 |
| CIS | 1520 Operating Systems | 3 | A | none |
| CIS | 2600 Fund of Database Mgt | 3 | A | CIS 1030 |
| CIS | 2650 Oracle | 3 | F, Sp | CIS 2010 |
| CIS | 2990 Special Topics | 1-3 | A | none |
| ART | 2140 Advanced Photoshop | 2 | A | ART 1360 or ART 1810 or ART |
| 2340 |  |  |  |  |
| ${ }_{*}^{\text {ART } \mathrm{CIS}} 103$ | 2610 Multimedia Authoring 030 and CIS 1130 must be comple | $2 \underset{\text { a }}{\text { A }}$ ( ${ }_{\text {ath a }}$ |  | ART 2440 |
|  |  |  |  | better. |



## ASSOCIATE OF APPLIED SCIENCECTE DEGREE IN COMPUTER INFORMATION SYSTEMS/DATABASE DESIGN, MANAGEMENT \& ADMINISTRATION EMPHASIS

(minimum 63 hours required)
The program provides academic and technical training necessary for students to gain entry-level positions in database analysis, design, and application development in both private and public organizations where daily business operations relies significantly on database management systems.

Information Management is relevant to every organization (public, private, for profit, non-profit, small business, large businesses). This program trains individuals with the skills needed to manage this information. Database managers and administrators are in short supply and in high-demand. This is a dynamic, changing field. Individuals would be required to develop databases, analyze them, and extract relevant data which would be required to allow businesses to be viable.
GENERAL EDUCATION REQUIREMENTS

| COURSE | CR SEM |  | PREREQUISITES |
| :---: | :---: | :---: | :---: |
| CORE SKILLS COMPOSITION |  |  |  |
| ENGL 1010 Intro to Writing | 3 | A | pre-test |
| QUANTITATIVE STUDIES |  |  |  |
| MATH 1010 Interm Algebra | 4 | A | MATH 0990 w/C or better or appropriate CPT score |
| FIN $\quad \stackrel{\text { OR }}{1380}$ Financial Math | 3 | A | MATH 0970 w/C or better or appropriate CPT score |
| COMMUNICATION |  |  |  |
| COMM 1010 Elem of Eff Comm | 3 | A | none |
| HUMAN RELATIONS |  |  |  |
| MKTG 1960 Profess in Bus | 3 | A | none |

## DISTRIBUTION AREAS

Choose an additional six credit hours from at least two of the following distribution areas:

| Biological Science (BS) | $3-4$ | A | RDG $0900 \mathrm{w} / \mathrm{C}$ <br> or better |
| :--- | ---: | :--- | :--- |
| Fine Arts (FA) | 3 | A | none |
| Humanities (HU) | 3 | A | none |
| *Interdisciplinary (ID) | 3 | A | none |
| Physical Science (PS) | 3 | A | none |
| Social Science (SS) | 3 | A | none |
| CIS 1430. |  |  |  |
| neral Education section for options in each of these categories. |  |  |  |


| MAJOR COURSE REQUIREMENTS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| CIS | 1030 Obj-Oriented Pro I | 3 | F, Sp | CIS 1020 or |
| CIS | 1055 Fund of DB Design | 3 | A | CIS 1020 or comp |
| CIS | 1430 Intern/HTML Fndtls | 3 | F | CIS 1020 or competency |
| concurrent |  |  |  |  |
| CIS | 2010 BusCompProf DBase | 3 | A | CIS 1020 or comp or Challenge exam |
| CIS | 2350 UNIX/Linux | 3 | F, Sp | CIS 1020 or comp |
| CIS | 2410 Adv Sprdst App | 3 | Sp | CIS 1020 or comp or Challenge exam |
| CIS | 2430 Web Programming | 3 | Sp | CIS 2420 |
| CIS | 2550 Data Base Prog | 3 | F, Sp | CIS 1030, CIS 2010 |
| CIS | 2600 Fund. Datab. Mgmt | 3 | F, Sp | CIS 1030 or concurrent |
| CIS | 2650 Oracle Datab. Dev. | 3 | F, Sp | CIS 1555 |
| MKTG | 1010 Cust Serv Tech | 2 | A | none |
| ENGL | 2100 Tech Writing | 3 | A | ENGL 1010 <br> w/C or better |
|  | Electives | 7 |  |  |

*CIS $10 \overline{30}$ and CIS 1130 must be completed with a B grade or better.
ELECTIVES (7 CREDITS)

| ACCT | 1110 Financial Acct I | 3 | A | none |
| :--- | :--- | ---: | :--- | :--- |
| BUS | 2200 Bus Communications | 3 | A | ENGL 1010 <br> w/C or better |
|  |  |  |  | CIS 020 or comp |
| CIS | 1520 Operating Systems | 3 | F, Sp | CIS 102 |
| CIS | 1900 Special Projects | 1 | F, Sp | none |
| CIS | 2000 CO-OP | $2-4$ | A | approval |
| CIS | 2420 Net Hard Con | 3 | F, Sp | CIS 1430 |
| CIS | 2990 Current Topics | $1-3$ | F, Sp | approval |
| FIN 1380 Financial Math | 3 | A | MATH 0990 or CPT |  |
| MKTG 1030 Intro to Mktg | 3 | A | none |  |
| MKTG 1050 Consumerism (ID) | 3 | A | none |  |

SAMPLE SCHEDULE

| FALL SEMESTER |  |  | SPRING SEMESTER |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CIS | 1030 | 3 | CIS | 1555 | 3 |
| CIS | 1055 | 3 | CIS | 1430 | 3 |
| CIS | 2010 | 3 | COMM | 1010 | 3 |
| ENGL | 1010 | 3 | MKTG | 1960 | 3 |
| MATH | 1010 | 4 | ENGL | 2100 | 3 |
| OR |  | 3 | ELEC |  | 3 |
| FIN | 1380 | 3 | TOTAL |  | 18 |
| TOTAL |  |  |  |  |  |
| 2ND FALL SEMESTER |  |  | 2ND SPRING SEMESTER |  |  |
| CIS | 2600 | 3 | CIS | 2350 | 3 |
| CIS | 2550 | 3 | ClS | 2410 | 3 |
| MKTG | 1010 | 2 | ClS | 2430 | 3 |
| DIST |  | 6 | CIS | 2650 | 3 |
| TOTAL |  | 14 | ELECTI |  | 4 |
|  |  |  | TOTAL |  | 16 |

## CERTIFICATE OF COMPLETION/CTE BUSINESS \& PERSONAL COMPUTING

(minimum 33 hours required)
This Certificate of Completion provides students foundational and necessary skills in Business and Personal Computing. Upon completion of the program, students will learn the skills necessary to manage their own personal computing needs as well as some of the fundamental skills necessary in business.

|  | OURSE REQUIREME | CR | SEM | PREREQUISITES |
| :---: | :---: | :---: | :---: | :---: |
| *CIS | 1070 Living in a Digital World | 3 | F, Sp | none |
| CIS | 1430 Intern/HTML ttt | 3 | F | CIS 1020 or competency |
| CIS | 1520 Operating Systems | 3 | F, Sp | CIS 1020 or comp |
| CIS | 2010 BusCompProf DBase | 3 | F, Sp | CIS 1020 or comp or Challenge Exam |
| CIS | 2410 Adv Sprdst App | 3 |  | CIS 1020 or comp |
| BUS | 1050 Foundations of Business 1050 Personal Finance | 3 | F, F Sp | Concur w/ENGL 1010 |
| CS | 1030 Connected Computing | 3 | F, Sp |  |
| CHOOSE ONE OF THE FOLLOWING |  |  |  |  |
| CS | 1031 Open Srce Windows Dsktp | 1 | F, Sp | CS 1030 |
| CS | 1032 Open Srce Linux Desktop | 1 | F, Sp | Concurrent |
| CS | 1033 Open Srce Mac Desktop | 1 | F, Sp | CS 1030 concurrent |


| SAMPLE SCHEDULE |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| FALL SEMESTER |  |  | SPRING SEMESTER |  |  |
| CIS | 1070 | 3 | BUS | 1050 | 3 |
| CIS | 1430 | 3 | CIS | 2010 | 3 |
| CIS | 1520 | 3 | CIS | 2410 | 3 |
| FIN | 1050 | 3 | FIN | 1380 | 1 |
| ENGL | 1010 | 3 | CS | 1030 | 3 |
| MKTG | 1010 | 2 | CS | , or 33) | 1 |
| TOTAL |  | 17 | TOTA |  | 16 |


[^0]:    NOTE: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a
    competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

