The Department of Computing Sciences at SPU prepares students to employ critical thinking skills and computer-based methods to analyze and solve challenging problems, utilize computing technologies in a socially responsible manner, and apply their expertise wherever they serve in the world. Our graduates are equipped for a variety of careers in engineering, business and scientific computing. The department offers three computing-related degree tracks and collaborates with the departments of Engineering and Mathematics in two others.

*Which is the right major for you? The answer lies in what YOU want to do with computers!*

**Computing Sciences Majors:**

**Computer Science** is the discipline which studies the representation, storage, and transformation of information utilizing computers. The computer scientist develops software and hardware to analyze data and solve problems; our graduates often begin their careers in software design, implementation and testing. Computer scientists also devise new ways of using computers and work to develop effective ways to solve difficult problems using computing technology. SPU’s [Bachelor of Science in Computer Science](http://www.spu.edu/depts/csc/) is the traditional degree in computer science. It provides preparation for graduate studies or professional careers in computer science, emphasizing scientific and engineering foundations. Our [Bachelor of Arts in Computer Science](http://www.spu.edu/depts/csc/) emphasizes problem solving, organizing and synthesizing ideas, and applications of computing theory. This is a particularly good major for students wishing to double-major or minor in another field, and graduates are well-suited for projects that apply computing to other disciplines.

**Information Systems** specialists focus on integrating technology solutions and organizational processes to meet the information needs of both for-profit and nonprofit organizations. IS professionals play a key role in determining the requirements for an organization’s information systems and are active in their specification, design, implementation and support. SPU’s [Bachelor of Science in Information Systems](http://www.spu.edu/depts/csc/) is designed to provide students with an understanding of both the technical and organizational factors surrounding information systems.

**Collaborative Degree Programs:**

**Computer Engineering** is concerned with the design and construction of computers and computer-based systems. Computer engineering students not only study software development, but also the design of digital hardware systems including communications systems, computers and devices that contain computers. The [Bachelor of Science in Computer Engineering](http://www.spu.edu/depts/csc/) combines strong bases in computer science, digital electronics and engineering. The major is housed in the Department of Engineering.

**Computational Mathematics** emphasizes applied mathematics, mathematical modeling, and scientific programming, and is designed for students interested in interdisciplinary careers involving the application of mathematics and computer science. The [Bachelor of Science in Computational Mathematics](http://www.spu.edu/depts/csc/) is housed in the Department of Mathematics, though the major contains nearly equal emphasis in computing and mathematics. Students are encouraged to explore undergraduate research opportunities combining these disciplines.
SPU’s Computing Sciences faculty have a combined teaching experience of over 60 years. All teach the foundational freshman-level computing courses; each also brings their own special interests and expertise to upper-division courses in computer science and engineering.

Elaine Weltz, Computing Sciences Chair  eweltz@spu.edu  206-281-3639
CSDP (Certified Software Development Professional)
M.S.E. Software Engineering, Seattle University; M.Mus., University of Southern California
Software engineering, system design, database management, social impacts of computing

Phil Prins, Computer Engineering Coordinator  pprins@spu.edu  206-281-2738
Ph.D. Electrical Engineering, M.S. Computer Science, University of Idaho
Computer engineering, computing architectures, international computing

Michael Tindall  mht@spu.edu  206-281-2945
M.S., Ph.D. Computer Science, University of Illinois
Systems software, operating systems, compilers, web and netcentric computing, algorithms

For More Information:
Visit the CSC departmental web site for the most up-to-date information about our current degree programs and requirements (http://www.spu.edu/depts/csc/).

The SPU web site (http://www.spu.edu) always has a vast wealth of information on the University as a whole as well as on all University programs. Current catalog requirements and course scheduling information are available at http://www.spu.edu/acad/UGCatalog/time_schedule/cats.asp.

Contact the Office of Undergraduate Admissions for information on campus visits, admissions procedures and deadlines, or to connect with an admissions counselor (http://www.spu.edu/depts/ugadm/).
Preliminary Prerequisites. High School Pre-Calculus or Math Analysis is required.

Admission and GPA Requirement. A minimum 2.5 GPA (cumulative in all courses required for the major taken at SPU) is required for admission to the major. Additionally, a minimum 2.0 (“C” grade) must be earned in CSC 2430, and a minimum 1.7 (“C-” grade) must be earned in each other course required for the major. An admission form and information is available from http://www.spu.edu/depts/csc.

Requirements for the Bachelor of Science in Computer Science
(106 Credits; 48 upper-division)
The BS/CS requires an 11-course core that provides a broad background in the topics of computer science. A project or research course plus three additional senior-level electives allow the student to explore these and other areas in greater depth, and apply their core knowledge to more advanced problems. This computing curriculum is supported by six courses of mathematics, two in electrical engineering, and one year of calculus-based physics.

Requirements for the Bachelor of Arts in Computer Science
(71 Credits; 41 upper-division)
The BA/CS emphasizes problem solving, organizing and synthesizing ideas, and applications of computing theory. Students complete 15 courses total in computer science, encompassing the major topics of the discipline. Mathematics courses in calculus, computer math, and statistics complete the major requirements.

Requirements for the Bachelor of Science in Information Systems
(81 Credits; 51 upper-division)
The BS/IS emphasizes the integration of information systems and organizational processes through studies in three areas:
- Computing Sciences – 12 courses focusing on problem solving, software and system development.
- Mathematics – calculus, computer math, and statistics provide a quantitative background.
- Organization – three courses in organizational/management topics help students make the connection between technology and the information needs of people.

Requirements for the Computing Sciences Minor
(35 Credits; 15 upper-division)
Core Courses – Both required:
CSC 1230 Problem Solving and Programming ................................................................. 5
CSC 2430 Data Structures I ................................................................................................ 5
Intermediate Programming – Select one of:
CSC 2431 Data Structures II ............................................................................................ 5
CSC 3220 Applications Programming ................................................................................ 3
15 Approved UD Credits (minimum of 10 must be CSC 3000 – 4850)
15 approved upper-division credits ................................................................................. 15
Mathematics
Select one of: MAT 1221, MAT 1234, MAT 1360, MAT 2700, PSY 2360, SOC 2360 .......... 5
Total .................................................................................................................................. 33 - 35

Related Degree Programs

B.S. in Computational Mathematics: Application of mathematics and computer science. Emphasizes applied mathematics, mathematical modeling, and scientific programming. For more information, contact the Department of Mathematics.

B.S. in Computer Engineering: Design and construction of computers and computer-based systems. Hardware, software, communications and the interaction among them. For more information, contact the Department of Engineering.
### Computing Sciences Degrees
#### Required Courses for 2008-2009 Catalog

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>B.S. Credits</th>
<th>B.A. CSC Credits</th>
<th>B.S. IS Credits</th>
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<td>5</td>
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<td>CSC 2430</td>
<td>Data Structures I</td>
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<td>CSC 2431</td>
<td>Data Structures II</td>
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<td>5</td>
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<td>CSC 3150W</td>
<td>Systems Design</td>
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<td>5</td>
<td>5</td>
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<tr>
<td>CSC 3220</td>
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<td>CSC 3221</td>
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<td>3</td>
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<td>3</td>
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<td>CSC 3310</td>
<td>Concepts in Programming Languages</td>
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<td>CSC 3350</td>
<td>Operating Systems Programming</td>
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<td>CSC 3430</td>
<td>Algorithm Design &amp; Analysis</td>
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<td>CSC 3750</td>
<td>Computer Architecture</td>
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<td>CSC 3760</td>
<td>Computer Organization</td>
<td>5</td>
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<td>CSC 3899</td>
<td>Social Impacts of Computing</td>
<td>3</td>
<td>3</td>
<td></td>
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<tr>
<td>CSC 4898</td>
<td>Senior Capstone in Computer Science</td>
<td>2</td>
<td>2</td>
<td>2</td>
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</table>

#### BS/IS Additional Requirements
- CSC 4410 Database Management 5
- CSC Project Course (CSC 4150 or 4820) 5

#### BS/CSC Additional Requirements
- CSC Project or Research Course (CSC 4150, 4820, 4760, or 4970) 5
- BS/CSC CSC Electives: 11 credits (CSC 4000 - 4850, or 4970) 11

#### BA/CSC Additional Requirements
- CSC Project or Research Course (CSC 4150, 4820, 4760, or 4970) 5
- BA/CSC CSC Electives: 3 courses (CSC 3350, 4000–4850, or 4970) 9-15

#### Total Computing Sciences Credits Required
- BS: 58
- B.A. CSC: 56-62
- B.S. IS: 46

#### Total Supporting-Discipline Credits Required
- BS: 48
- B.A. CSC: 15
- B.S. IS: 35

#### Total Credits Required
- BS: 106
- B.A. CSC: 71-77
- B.S. IS: 81

#### Total Upper-division Credits Required
- BS: 48
- B.A. CSC: 41-47
- B.S. IS: 51

* This course fulfills a General Education requirement
Seattle Pacific University
Computing Sciences Curriculum PREREQUISITE Diagram

High School pre-Calculus or math analysis

CSC 1230 (5) Problem Solving and Programming

CSC 2430 (5) Data Structures I

CSC 2431 (5) Data Structures II

CSC 2431

CSC 2430 and EE 1210

CSC 3750 or 3760

CSC 3750 (5) Computer Architecture and Organization

CSC 3750 or 3760

CSC 3760 (5) Computer Organization and Assm Language

CSC 4750 (5) Computer Networks


CSC 4150 (5) Software Engineering [Team-Project]

CSC 4800 (3 or 5)
CSC 4810W (3 or 5) ["W" Writing]
CSC 4820: Project (5) [Team-Project]
Advanced Issues in Computer Science

CSC 4800

CSC 4810W

CSC 4820: Project

CSC 4898 (2) Senior Capstone in Computer Science

Effective FALL 2008

CSC 2410 (3) Theory of Algorithms and Computation

CSC 3221 (3) Netcentric Computing

CSC 2431

CSC 3150W (5) Systems Design

MAT 1226/1235

MAT 2720 (3) Discrete Mathematics

MAT 1221/1225/1234

MAT 1720 (5) Mathematics for Computer Science (BA)

MAT 2720 or MAT 1720

MAT 1360/2376/2700/3360 and

CSC 2430 (5) Data Structures I

CSC 2431 (5) Operating Systems Programming

CSC 3220 (3) Applications Programming

CSC 3310 (3) Concepts in Prog. Lang.

CSC 3350 (5) (BA) Computer Architecture and Organization

CSC 3221 (3) Netcentric Computing

CSC 3430 (3) Algorithm Design and Analysis

CSC 3431 (3) Netcentric Computing

CSC 3750 (5) Computer Architecture and Organization

CSC 3899W (3) Social Issues in Computing

CSC 4210 (3) Compiler Design

CSC 4310 (3) Compiler Design

CSC 4350 (3) Adv. Operating Systems

CSC 4350 (3) Adv. Operating Systems

CSC 4410 (5) Database Management

CSC 4510 (3) GUI Design and Programming

CSC 4898 (2) Senior Capstone in Computer Science

Various Prerequisites and Credits

Sr. class

Sr. CSC Major

Jr. or Sr. standing
### BS/CS - BACHELOR OF SCIENCE in COMPUTER SCIENCE REQUIREMENTS

(Major Total = 106 credits)

- CSC 1230 Problem Solving & Programming (5)
- CSC 2430 Data Structures I (5)
- CSC 2431 Data Structures II (5)
- CSC 3150W Systems Design (5)
- CSC 3220 Applications Programming (3)
- CSC 3221 Netcentric Computing (3)
- CSC 3310 Concepts in Programming Lang. (3)
- CSC 3430 Algorithm Design and Analysis (3)
- CSC 3760 Computer Organization (5)
- CSC 4898 Sr. Capstone in Computer Science (2)
- 1 Project course from the following list
  - CSC 4150 Software Engineering (5)
  - CSC 4820 Adv. Issues – Project course (5)
  - CSC 4970 Directed Research in CS (5)

- 11 credits: CSC 4000 – 4850, 4970

### BA/CS - BACHELOR OF ARTS in COMPUTER SCIENCE REQUIREMENTS

(Major Total = 71 credits)

- CSC 1230 Problem Solving & Programming (5)
- CSC 2430 Data Structures I (5)
- CSC 2431 Data Structures II (5)
- CSC 3150W Systems Design (5)
- CSC 3220 Applications Programming (3)
- CSC 3221 Netcentric Computing (3)
- CSC 3310 Concepts in Programming Lang. (3)
- CSC 3430 Algorithm Design and Analysis (3)
- CSC 3750 Computer Architecture (5)
- CSC 3899 Social Impacts of Computing (3)
- CSC 4898 Sr. Capstone in Computer Science (2)
- 1 Project course from the following list
  - CSC 4150 Software Engineering (5)
  - CSC 4820 Adv. Issues – Project course (5)
  - CSC 4970 Directed Research in CS (5)

- 3 Courses: CSC 3350, 4000 – 4850, 4970

### BS/IS – BACHELOR OF SCIENCE in INFORMATION SYSTEMS REQUIREMENTS

(Major Total = 81 credits)

- CSC 1230 Problem Solving & Programming (5)
- CSC 2430 Data Structures I (5)
- CSC 2431 Data Structures II (5)
- CSC 3150W Systems Design (5)
- CSC 3899 Social Impacts of Computing (3)
- CSC 4898 Sr. Capstone in Computer Science (2)
- 1 Project course from the following list
  - CSC 4150 Software Engineering (5)
  - CSC 4820 Adv. Issues – Project course (5)

- 3 Courses: CSC 3350, 4000 – 4850, 4970

- MAT 1221 Survey of Calculus (5)*
- MAT 1221 Math. for Computer Science (5)
- MAT 1234 Calculus I (5)*
- MAT 1235 Calculus II (5)
- MAT 1236 Calculus III (5)
- MAT 2720 Discrete Mathematics (3)
- MAT 3360 Probability and Statistics (5)
- PHY 1121 Physics for Sci/Engr (5)*
- PHY 1122 Physics for Sci/Engr (5)*
- PHY 1123 Physics for Sci/Engr (5)*
- EE 1210 Introduction to Logic System Design (5)
- EE 3280 Microcontroller System Design (5)

- MAT 1360 Intro. To Statistics (5)*
- MAT 2700 Statistics for Bus. & Econ. (5)*

- MAT 1235 Calculus II (5)*
- MAT 1236 Calculus III (5)
- MAT 2720 Discrete Mathematics (3)
- MAT 3360 Probability and Statistics (5)
- PHY 1121 Physics for Sci/Engr (5)*
- PHY 1122 Physics for Sci/Engr (5)*
- PHY 1123 Physics for Sci/Engr (5)*
- EE 1210 Introduction to Logic System Design (5)
- EE 3280 Microcontroller System Design (5)

- MAT 1360 Intro. To Statistics (5)*
- MAT 2700 Statistics for Bus. & Econ. (5)*

- BUS 3614 Organizational Behavior (5)
- BUS 4644 Operations Management (5)
- BUS 3620 Management Information Systems (5)
- BUS 4620 Computer Networks (5)
- COM 4265 Organizational Communication (5)
### Recommended 4-year Course Sequence for Computer Science Majors
#### Academic Year 2008 – 2009

This course sequence is meant to be used as a guideline for the completion of **major requirements**. Consult with your faculty advisor or academic counselor about modifying this plan to meet your needs, and to reflect any coursework you have already completed prior to enrolling at SPU.

For a complete plan, including Common and Exploratory curricula and competencies, see the SPU Catalog online: [http://www.spu.edu/acad/UGCatalog/time_schedule/cats.asp](http://www.spu.edu/acad/UGCatalog/time_schedule/cats.asp).

#### BS in Computer Science

<table>
<thead>
<tr>
<th>Year</th>
<th>Autumn</th>
<th>Winter</th>
<th>Spring</th>
<th>Any Quarter</th>
<th>Other Requirements</th>
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<tbody>
<tr>
<td>FR</td>
<td>CSC 1230 (5)</td>
<td>CSC 2430 (5)</td>
<td>CSC 2431 (5)</td>
<td></td>
<td>Apply for admission to the major. A 2.5 GPA is required, in addition to a 2.0 in CSC 2430.</td>
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<tr>
<td>SO</td>
<td>EE 1210 (5)</td>
<td>CSC 3220 (3)</td>
<td>CSC 3221 (3)</td>
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<td>Apply to graduate once 105 credits and admission to major have been earned.</td>
</tr>
<tr>
<td></td>
<td>MAT 3360 (5)</td>
<td>CSC 3760 (5)</td>
<td>CSC 3770 (5)</td>
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<tr>
<td>JR</td>
<td>PHY 1121 (5)*</td>
<td>PHY 1122 (5)*</td>
<td>PHY 1123 (5)</td>
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<td>Create a final-year plan and meet with your faculty advisor for review.</td>
</tr>
<tr>
<td></td>
<td>CSC 3310 (3) (odd years)</td>
<td>CSC 3430 W (5)</td>
<td>CSC 3430 (3) (even years)</td>
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<td></td>
<td>MAT 1235 (5)</td>
<td>MAT 1236 (5)</td>
<td>MAT 1237 (5)</td>
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<tr>
<td></td>
<td>MAT 1238 (5)</td>
<td>MAT 1239 (5)</td>
<td>MAT 1240 (5)</td>
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<tr>
<td>SR</td>
<td>CSC 3310 (3) (odd years)</td>
<td>CSC 3430 (3) (even years)</td>
<td>EE 3280 (5)</td>
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<td>Apply for admission to the major. A 2.5 GPA is required, in addition to a 2.0 in CSC 2430.</td>
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<td>MAT 1236 (5)</td>
<td>MAT 1237 (5)</td>
<td>MAT 1238 (5)</td>
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</table>

*This course fulfills an Exploratory Curriculum requirement*

#### BA in Computer Science

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<th>Year</th>
<th>Autumn</th>
<th>Winter</th>
<th>Spring</th>
<th>Any Quarter</th>
<th>Other Requirements</th>
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</thead>
<tbody>
<tr>
<td>FR</td>
<td>CSC 1230 (5)</td>
<td>CSC 2430 (5)</td>
<td>CSC 2431 (5)</td>
<td></td>
<td>Apply for admission to the major. A 2.5 GPA is required, in addition to a 2.0 in CSC 2430.</td>
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<tr>
<td>SO</td>
<td>CSC 3220 (3)</td>
<td>CSC 3221 (3)</td>
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<td>Apply to graduate once 105 credits and admission to major have been earned.</td>
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<tr>
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<td>MAT 1720 (5)</td>
<td>CSC 3750 (5)</td>
<td>CSC 3760 (5)</td>
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<tr>
<td></td>
<td>(even years)</td>
<td>(odd years)</td>
<td>(even years)</td>
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<td></td>
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<tr>
<td></td>
<td>MAT 1235 (5)</td>
<td>MAT 1236 (5)</td>
<td>MAT 1237 (5)</td>
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<td>MAT 1238 (5)</td>
<td>MAT 1239 (5)</td>
<td>MAT 1240 (5)</td>
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<td>CSC 3310 (3) (odd years)</td>
<td>CSC 3430 (5) (even years)</td>
<td>CSC 3899W (3)</td>
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<td>Create a final-year plan and meet with your faculty advisor for review.</td>
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<td>MAT 1241 (5)</td>
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<td>SR</td>
<td>CSC 3310 (3) (odd years)</td>
<td>CSC 3430 (3) (even years)</td>
<td>CSC 4898 (2)</td>
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<td>MAT 1238 (5)</td>
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</table>

*This course fulfills an Exploratory Curriculum requirement*
This course sequence is meant to be used as a guideline for the completion of major requirements. Consult with your faculty advisor or academic counselor about modifying this plan to meet your needs, and to reflect any coursework you have already completed prior to enrolling at SPU.

For a complete plan, including Common and Exploratory curricula and competencies, see the SPU Catalog online: http://www.spu.edu/acad/UGCatalog/time_schedule/cats.asp.

### BS in Information Systems

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<th>Year</th>
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<td>(even years)</td>
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<td>(odd years)</td>
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<tr>
<td></td>
<td>MAT 1720 (5)</td>
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<td>CSC 3221 (3)</td>
<td>CSC 3750 (5)</td>
<td>BUS 3620 (5) (SO or JR year)</td>
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<td>(odd years)</td>
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<tr>
<td>JR</td>
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<td>CSC 3899W (3)</td>
<td>CSC 3150W (5)</td>
<td>CSC 3750 (5)</td>
<td>BUS 3620 (5) (SO or JR year)</td>
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<tr>
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<td>(even years)</td>
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<td>(odd years)</td>
<td></td>
<td>BUS 3614 (5) OR BUS 4644 (JR or SR year)</td>
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<td>Apply to graduate once 105 credits and admission to major have been earned.</td>
</tr>
<tr>
<td>SR</td>
<td>COM 4265 (5)</td>
<td>CSC 4410 (5)</td>
<td>CSC 4898 (2)</td>
<td>BUS 3614 (5) OR BUS 4644 (JR or SR year)</td>
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<td>(also offered Spring quarter)</td>
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<td></td>
<td>(SO or JR year) - CSC 4150 (5) OR CSC 4820 (5)</td>
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<td></td>
<td>Create a final-year plan and meet with your faculty advisor for review.</td>
</tr>
</tbody>
</table>

*This course fulfills an Exploratory Curriculum requirement*
Name: _________________________________  SID: _________________________________

Minor in Computing Sciences

Admission to the Minor: _________________________________

Requirements for the COMPUTING SCIENCES Minor

(35 Credits; 15 upper-division)

Core Courses – Both required:

☐ CSC 1230  Problem Solving and Programming....................................................... 5
☐ CSC 2430  Data Structures I .................................................................................... 5

☐ Intermediate Programming – Select one of:
   - CSC 2431  Data Structures II ................................................................................ 5
   - CSC 3220  Applications Programming ................................................................. 3

☐ 15 Approved UD Credits (minimum of 10 must be CSC 3000 – 4850)
   15 approved upper-division credits........................................................................... 15

☐ Mathematics
   Select one of: MAT 1221, MAT 1234, MAT 1360, MAT 2700, PSY 2360, SOC 2360 ....... 5

Total .................................................................................................................................. 33 - 35

_________________________________________  Advisor
_________________________________________  (Signed)