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DEPARTMENT *of* COMPUTING

College of Business & Technology

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EAST TENNESSEE STATE UNIVERSITY

**Advisement Booklet**

2019 – 2020

## Department of Computing Undergraduate Advisement

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\*\*Contact information is subject to change. For the most up to date information please visit:  
<https://www.etsu.edu/cbat/computing/facstaff/>.

## Additional Contact Information

Office	Location	Phone	Email	Website
Office of Admission	Burgin Dossett Hall 106	(423) 439-4213	go2etsu@etsu.edu	<a href="https://www.etsu.edu/admissions/">https://www.etsu.edu/admissions/</a>
Office of Financial Aid	Burgin Dossett Hall 105	See Website	finaid@etsu.edu	<a href="https://www.etsu.edu/finaid/counselors.php">https://www.etsu.edu/finaid/counselors.php</a>
Bursar's Office	Burgin Dossett Hall 202	(423) 439-4212	bursar@etsu.edu	<a href="https://www.etsu.edu/bf/bursar/">https://www.etsu.edu/bf/bursar/</a>
Scholarship Office	Culp Center 2nd Floor	(423) 439-7094	scholarshipoffice@etsu.edu	<a href="https://www.etsu.edu/scholarships/">https://www.etsu.edu/scholarships/</a>
CBAT Scholarships	Sam-Wilson Hall 210	(423) 439-4289	Your Advisor	<a href="https://www.etsu.edu/cbat/students/cbatfinaid.php">https://www.etsu.edu/cbat/students/cbatfinaid.php</a>
CBAT Career Services	Sam Wilson Hall 312	(423) 439-5656	laprade@etsu.edu	<a href="https://www.etsu.edu/cbat/careerservices/">https://www.etsu.edu/cbat/careerservices/</a>
Office of the Registrar	Burgin Dossett Hall 102	(423) 439-4230	registra@etsu.edu	<a href="https://www.etsu.edu/reg/">https://www.etsu.edu/reg/</a>

## Degree Works

### *DEGREE NOW, NOT LATER*

- **Degree Works** is an academic advising and degree audit tool that helps advisors and students track their degree progress in real-time!
- **Fully integrated with GoldLink**, Degree Works gives students an up-to-date, play-by-play of courses taken and courses needed to help them plan and complete their degree(s) on time!
- Benefits and Features of Degree Works
  - Provides real-time degree audit, history and information and allows for improved course and degree planning
  - Provides planning scenarios if you change majors, concentrations or plans
  - Improves Advisor communication for courses and requirements
  - GPA calculator - See how final grades may affect the overall GPA
  - Still Need Courses- Hyperlinks to information about the course, section and scheduling information
- **"What If..."** scenarios, allow students to experiment with changing majors or degree plans.
- Using the **Plans** tab, a student or advisor can create an academic plan either from scratch or using a template for the course of study. Student Education Plan in Degree Works provides 4 different views:
  - **Calendar view** - compact view of the 4-year plan
  - **Audit view** - side by side view of your audit & 4-year plan
  - **Edit view** - changes to the plan are made in this view
  - **Note view** - Allows you to print notes attached to a class
- Find your Advisor in Degree Works using the "Advisor Contact List." This is a hyperlink to all advisors' information.
- Use the Progress bars to keep up with your degree progress. The **requirements bar** includes course requirements, non-course requirements along with graduation requirements. The **credit bar** tracks the percentage of credits completed towards the 124 degree credit requirement.
- Degree Works performs best when using browsers other than Microsoft Edge and IE 9
- You will not be cleared for graduation until completion of everything in your Degree Works.

## **Bachelor of Science in Computing with concentrations in**

- **Cybersecurity and Modern Networks (CSMN)**
- **Computer Science (CS)**
- **Information Systems (IS)**
- **Information Technology (IT)**

The four concentrations share a common core of courses that provides a strong background in programming, design, computer organization, database management, networking, security, and software engineering. All concentrations require a course in probability and statistics and in discrete mathematics. Concentrations emphasize practical skills needed to succeed in careers in computing, including practical skills for careers in computing, including technical skills, written and oral communication, project management, and teamwork. Graduates work in a wide variety of industries throughout the region, nation, and world at highly competitive salaries. Many graduates also complete advance degrees, including the department's graduate program.

**CYBERSECURITY AND MODERN NETWORKS (CSMN)** – The CSMN concentration supplements the core curriculum with courses in secure software development and systems deployment; cloud, wireless, and mobile computing; and sensor-based (Internet of Things) computing. This concentration is designed for students who wish to pursue careers in computer security and in networking-enabled application development. This concentration is also recommended for those who plan to do graduate work in cybersecurity.

**COMPUTER SCIENCE (CS)** - The CS concentration supplements the core curriculum with courses in data structures, algorithms, computer architecture, and operating systems. Students apply their knowledge to the development of systems-level software programming, including real-time graphics simulations, distributed systems, and operating systems. This concentration is also recommended for those who plan to do graduate work in computer science.

**INFORMATION SYSTEMS (IS)** - The IS concentration supplements the core curriculum with courses in Enterprise Resource Planning (ERP) and enterprise system implementation and programming. Students select an emphasis in accountancy or management, and explore the application of information systems in business process definition and execution. This concentration is designed for students who wish to apply their knowledge in enterprise information systems, business-oriented computing or within their emphasis area. This concentration is recommended for those who plan to do graduate work in information systems or business administration.

**INFORMATION TECHNOLOGY (IT)** - The IT concentration supplements the core curriculum with courses in web development, database and system administration, and human computer interaction. This concentration is designed for students who wish to apply their knowledge in these fields and for those who plan to do graduate work in information technology.

**The undergraduate Computer Science, Information Systems, and Information Technology programs at ETSU are accredited by the Computing Accreditation Commission (CAC) of ABET, <http://www.abet.org>, an accrediting body recognized by the Council for Higher Education Accreditation (CHEA).**

**The Cybersecurity and Modern Networks concentration will be eligible for initial ABET review in 2024.**

## Cybersecurity and Modern Networks (CSMN) Admission Policy

Admission to the Cybersecurity and Modern Networking concentration is by Departmental approval only.

Students interested in the CSMN program are advised to enter the Computer Science concentration their first year. Students may apply for entrance to the CSMN concentration after having completed the following foundational classes:

- CSCI 1250 Introduction to Computer Science I
- CSCI 1260 Introduction to Computer Science II
- CSCI 1900 Math for Computer Science
- CSCI 2150 Computer Organization
- CSCI 2210 Data Structures
- CSCI 3400 Networking Fundamentals
- MATH 1910 Calculus I
- MATH 2050 Foundations of Probability and Statistics – Calculus Based

As a part of the application process, students must commit to the cohort's requirements regarding class scheduling and present a statement of academic/career goals. A faculty committee will evaluate applicants based on their academic work to date, particularly in the foundation course set, and an assessment of their potential to achieve success in the program.

One cohort will be admitted each fall. To maintain good standing in the cohort, students must take and successfully complete all upper level program courses in one attempt. Students failing to do so will face extended time to graduate. In this situation, students may wish to transfer to another Computing concentration.

### Graduation Requirements

In order to complete the degree, a computing major must:

- Complete all courses with an overall GPA of 2.5 or better
- Complete all computing courses with a GPA of 2.5 or better
- Complete [CSCI 1250](#) and [CSCI 1260](#) with a grade of “B-” or better
- Complete all other major requirements with a grade of “C-” or better (this includes computing core, concentration courses, and all other courses from other departments that satisfy major requirements)
- Complete [ENGL 1010](#) and [ENGL 1020](#) with a minimum grade of “C”
- Complete CSCI 1100 or the UIT Proficiency Exam
- Complete 124 credit hours Including:
  - o ETSU General Education Requirements
  - o Major Requirements
  - o Any Additional Electives
- Complete the California Critical Thinking Skills Test (CCTST)
- Complete the Major Field Test (if applicable)

Students must complete every required course with the required final grade in at most three attempts. For the purpose of determining progress towards degree completion, a student's grade of record in a given course shall be the grade that that was earned in that student's latest attempt at that course -- rather than any grades earned before this latest attempt. An attempt is defined as registering for and remaining enrolled in a course after the second week of the semester. Students should refer to the Academic Calendar at <https://www.etsu.edu/etsu/academicdates.aspx> for specific dates.

**Computing majors and minors will be required to change their program of study if these requirements cannot be met.**

**No Minor is required**

## 2019 – 2020 Gen. Ed. Requirements for Computing Majors (41-42 credit hours)

### Writing: 6 credit (Grade C or better for both)

- ENGL 1010 Critical Reading & Exp. Writing (3)
- ENGL 1020 Critical Thinking & Argument (3)

### Oral Communication: 3 credits

- COMM 2055 Argumentation & Debate (3)

### Literature: 3 credits (select one)

- ENGL 2030 Literary Heritage (3)
- ENGL 2110 American Literature II (3)
- ENGL 2120 American Literature II (3)
- ENGL 2210 British Literature I (3)
- ENGL 2220 British Literature II (3)
- ENGL 2330 World Literature (3)
- ENGL 2430 European Literature (3)

### Fine Arts: 3 credits (select one)

- ARTA 1030 Art Appreciation (3 credits)
- ARTH 2010 Art History Survey I (3)
- ARTH 2010 Art History Survey II (3)
- BLUE 2150 American Roots Music (3)
- DANC 1500 Dance as Human Experience (3)
- HUMT 2310 Arts & Ideas I (3)
- HUMT 2320 Arts & Ideas II (3)
- MUSC 1030 Introduction to Music (3)
- MUSC 1035 History of Jazz (3)
- THEA 1030 Introduction to Theater (3)

### Humanities: 3 credits (select one)

- ENGL 3150 Lit., Ethics, and Values (3)
- ENGL 3280 Mythology (3)
- ENTC 3020 Technology and Society (3)
- HIST 1110 World Hist. & Civ. to 1500 (3)
- HIST 1120 World Hist. & Civ. since 1500 (3)
- PHIL 1030 Introduction to Philosophy (3)
- PHIL 2020 Introduction to Ethics (3)
- PHIL 2040 Philosophy as Conversation (3)
- RELI 2210 Intro. to the Study of Religion (3)
- PHIL 2640 Science in the Modern World (3)

### History: 6 credits (select two)

- HIST 2010 US to 1877 (3)
- HIST 2020 U.S. Since 1877 (3)
- HIST 2030 History of Tennessee (3)

### Mathematics: 3-4 credits

- MATH 1530 Prob. and Stats.- Non-Calculus (3)  
**\*IT and IS Students**
- MATH 1910 Calculus I (4)  
**\*CS and CSMN Students**

### Social/Behavioral Sciences: 6 credits (select two)

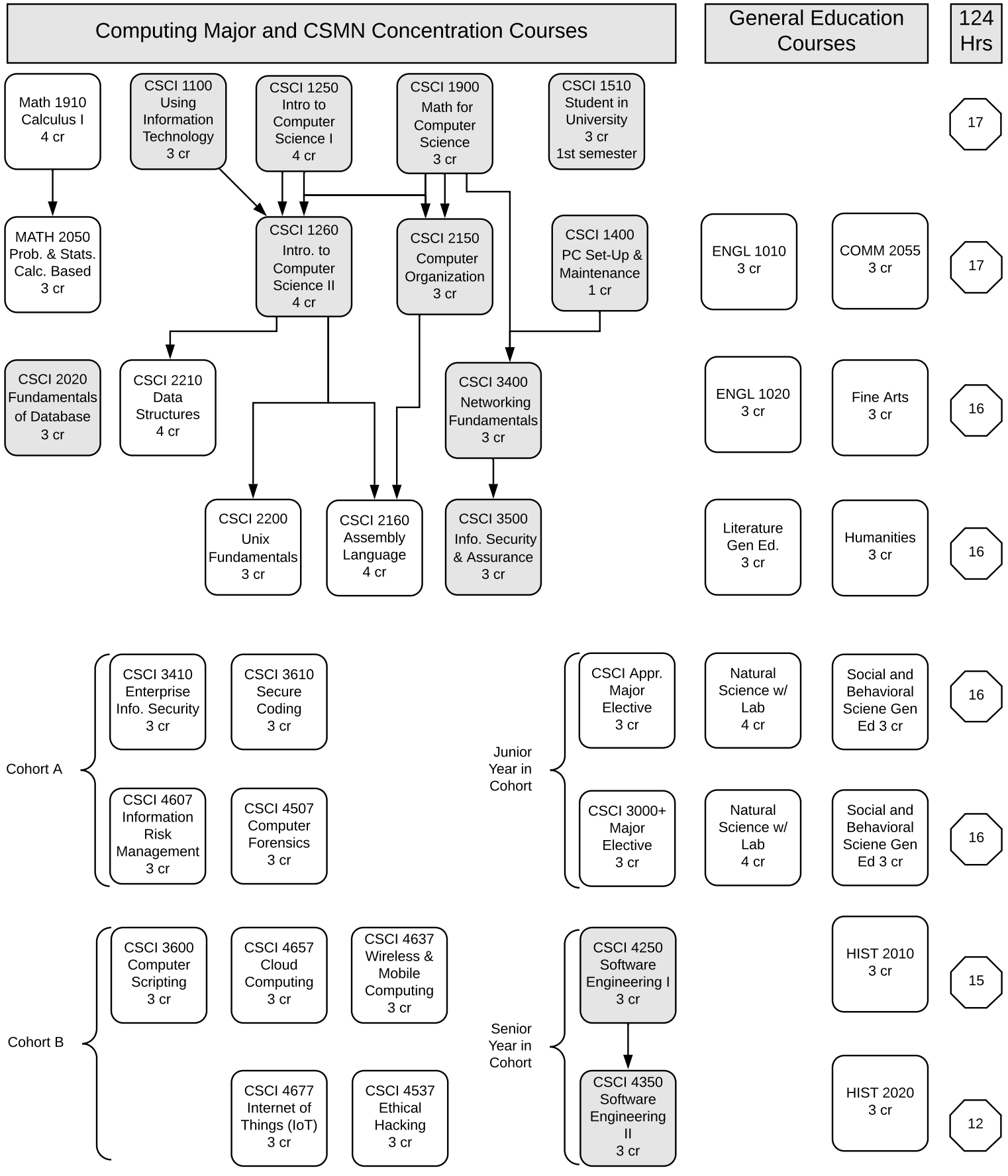
- ANTH 1240 Intro. to Cultural Anthropology (3)
- ECON 2220 Principles of Microeconomics (3)
- ECON 1050 Economics & Society (3) **OR**  
ECON 2210 Principles of Macroeconomics (3)  
**\*IS Concentration Choose ECON 2210**
- GEOG 1012 Intro. to Cultural Geography (3)
- HDAL 2310 Developmental Psychology (3)
- HDAL 2340 Understanding Cultural Div. (3)
- MCOM 1030 Intro. to Mass Communications (3)
- PSCI 1110 Intro. to Political Science (3)
- PSCI 1120 Intro. to American Government (3)
- PSYC 1310 Introduction to Psychology (3)
- SOCI 1020 Introduction to Sociology (3)
- SOCI 2020 Social Problems (3)
- SRVL 1020 Intro. to Service Learning (3)
- WMST 2010 Intro. to Women's Studies (3)

### Natural Sciences: 8 credits, Consisting of two of the following in the same science sequence. (Some require labs which are listed directly after the lecture.)

- ASTR 1010 Astronomy I (4)  
ASTR 1020 Astronomy II (4)  
ASTR 1035 Life in the Universe (4)
- BIOL 1110 Biology for Science Majors I (4)  
BIOL 1111 Biology for Science Majors I Lab (0)  
BIOL 1120 Biology for Science Majors II (4)  
BIOL 1121 Biology for Science Majors II Lab (0)
- CHEM 1110 General Chemistry I (4)  
CHEM 1111 General Chemistry I Lab (0)  
CHEM 1120 General Chemistry II (4)  
CHEM 1121 General Chemistry I Lab (0)
- GEOL 1040 Geosciences: Earth & Society (3)  
GEOL 1041 Geosciences: Earth & Society Lab (1)  
GEOL 1050 Geosciences: Earth Thru Time (3)  
GEOL 1051 Geosciences: Earth Thru Time Lab (1)
- HSCI 2010 Anatomy and Physiology I (4)  
HSCI 2011 Anatomy and Physiology I Lab (0)  
HSCI 2020 Anatomy and Physiology II (4)  
HSCI 2021 Anatomy and Physiology II Lab (0)
- PHYS 2010 Gen. Physics I-Noncalculus (3)  
PHYS 2011 Gen. Physics I Lab-Noncalculus (1)  
PHYS 2020 Gen. Physics II-Noncalculus (3)  
PHYS 2021 Gen. Physics II Lab-Noncalculus (1)
- PHYS 2110 Technical Physics I-Calculus (5)  
PHYS 2120 Technical Physics II-Calculus (5)

**These are the only sciences that count for Computing.**

**Catalog Year 2019-2020  
Cybersecurity and Modern Networks (CSMN)  
Suggested Course Sequence**



**Notes:**

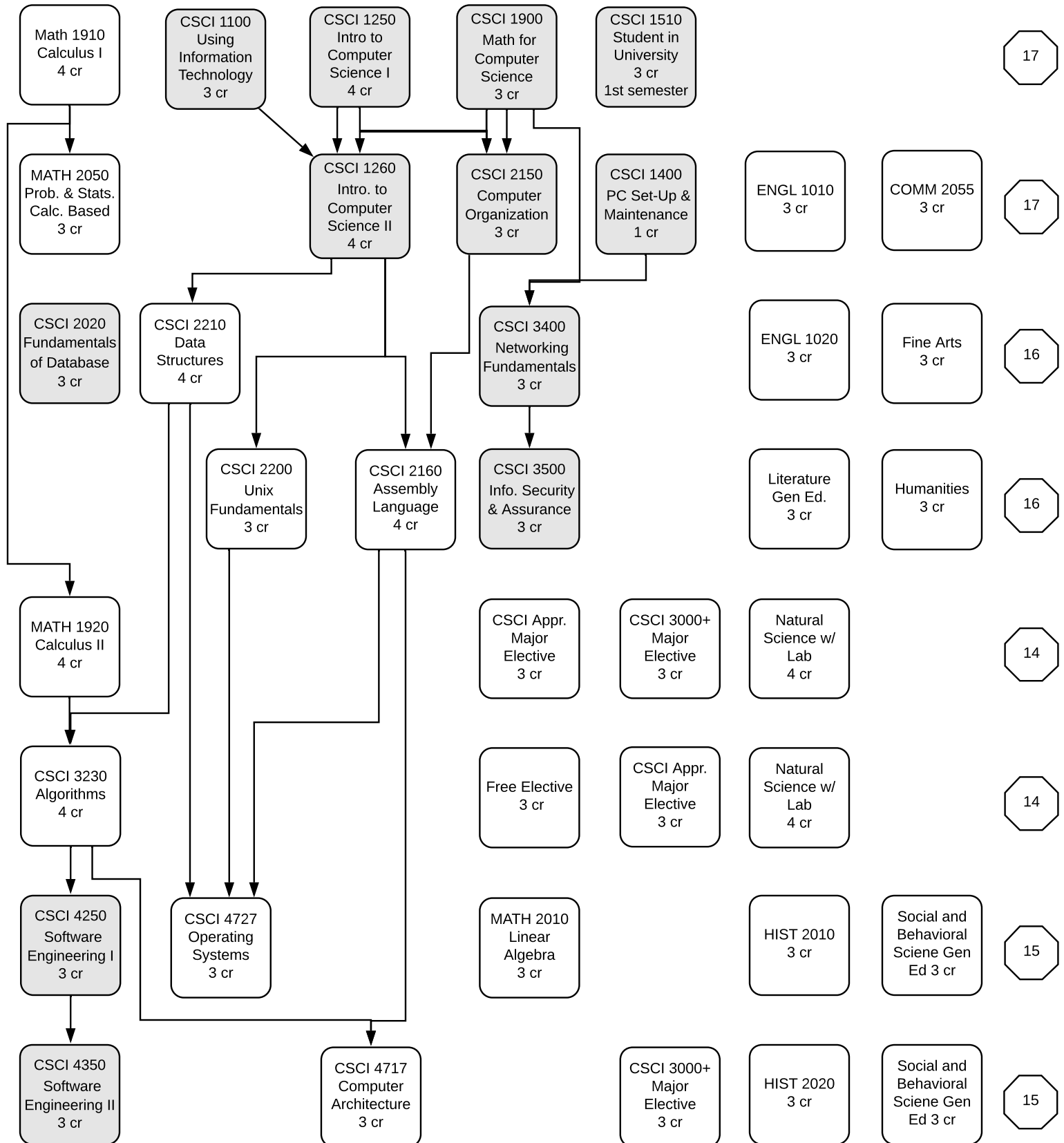
- Each row represents 1 semester in Computing
- Not all prerequisites are represented in this chart
- Course prerequisites are on page 8 in booklet
- Shaded courses are part of the Computing Core
- Semesters may vary depending on availability & student progress

**Catalog Year 2019-2020  
Computer Science (CS)  
Suggested Course Sequence**

**Computing Major and CS Concentration Courses  
(Interest in Applying for CSMN)**

**General Education  
Courses**

**124  
Hrs**

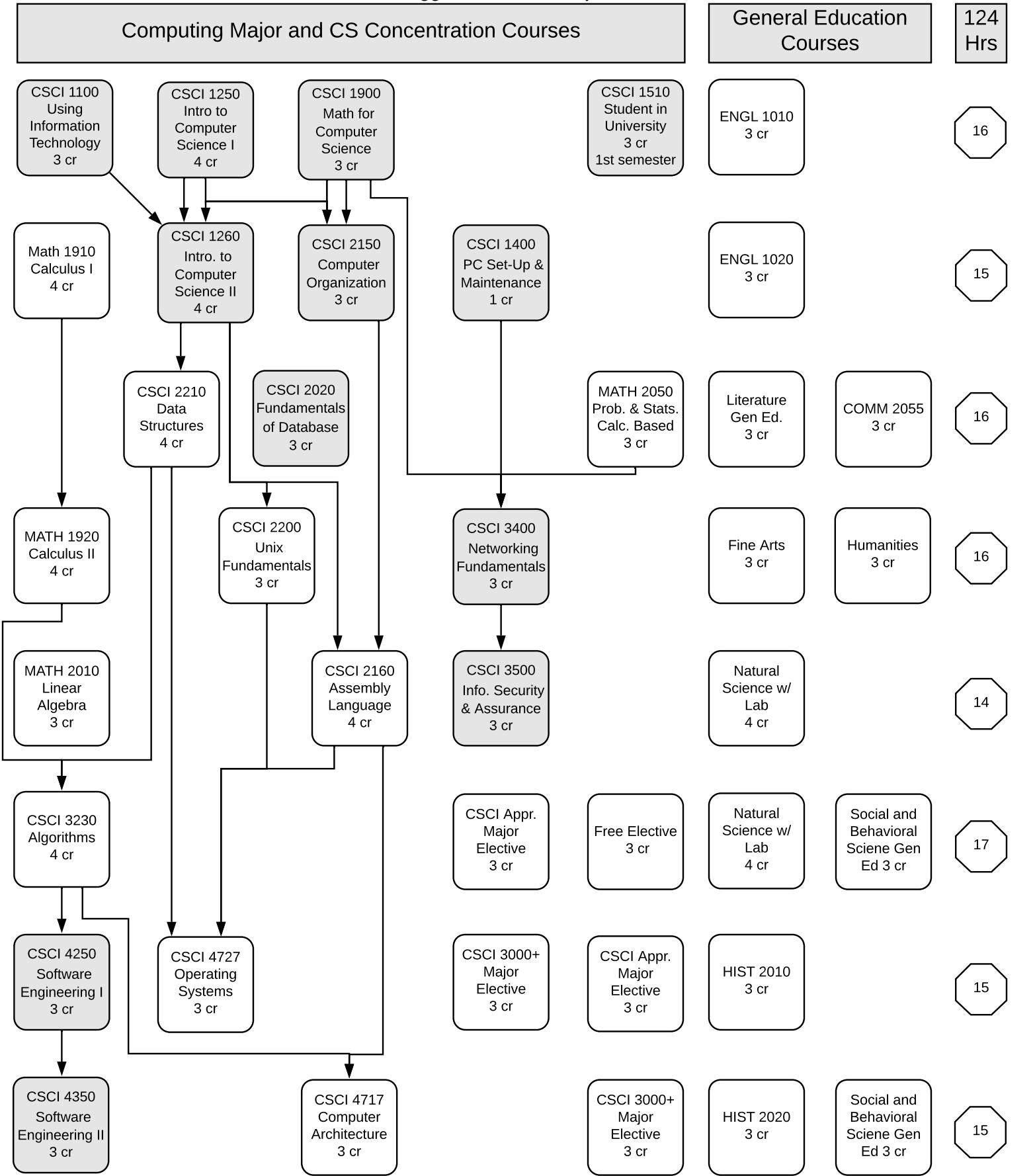


**Notes:**

- Each row represents 1 semester in Computing
- Not all prerequisites are represented in this chart
- Course prerequisites are on page 8 in booklet
- Shaded courses are part of the Computing Core
- Semesters may vary depending on availability & student progress



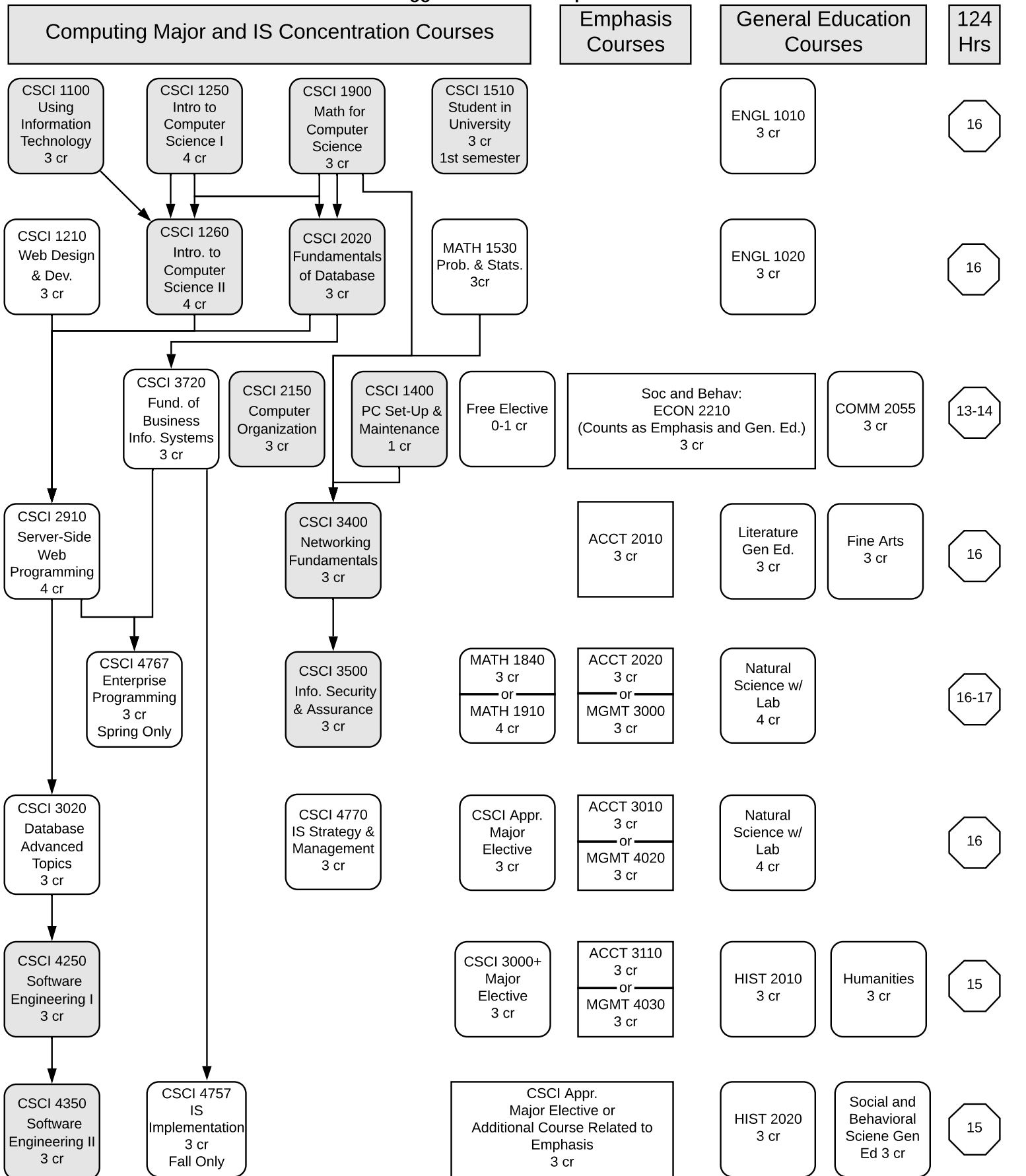
**Catalog Year 2019-2020  
Computer Science (CS)  
Suggested Course Sequence**



**Notes:**

- Each row represents 1 semester in Computing
- Not all prerequisites are represented in this chart
- Course prerequisites are on page 8 in booklet
- Shaded courses are part of the Computing Core
- Semesters may vary depending on availability & student progress

**Catalog Year 2019-2020  
Information Systems (IS)  
Suggested Course Sequence**

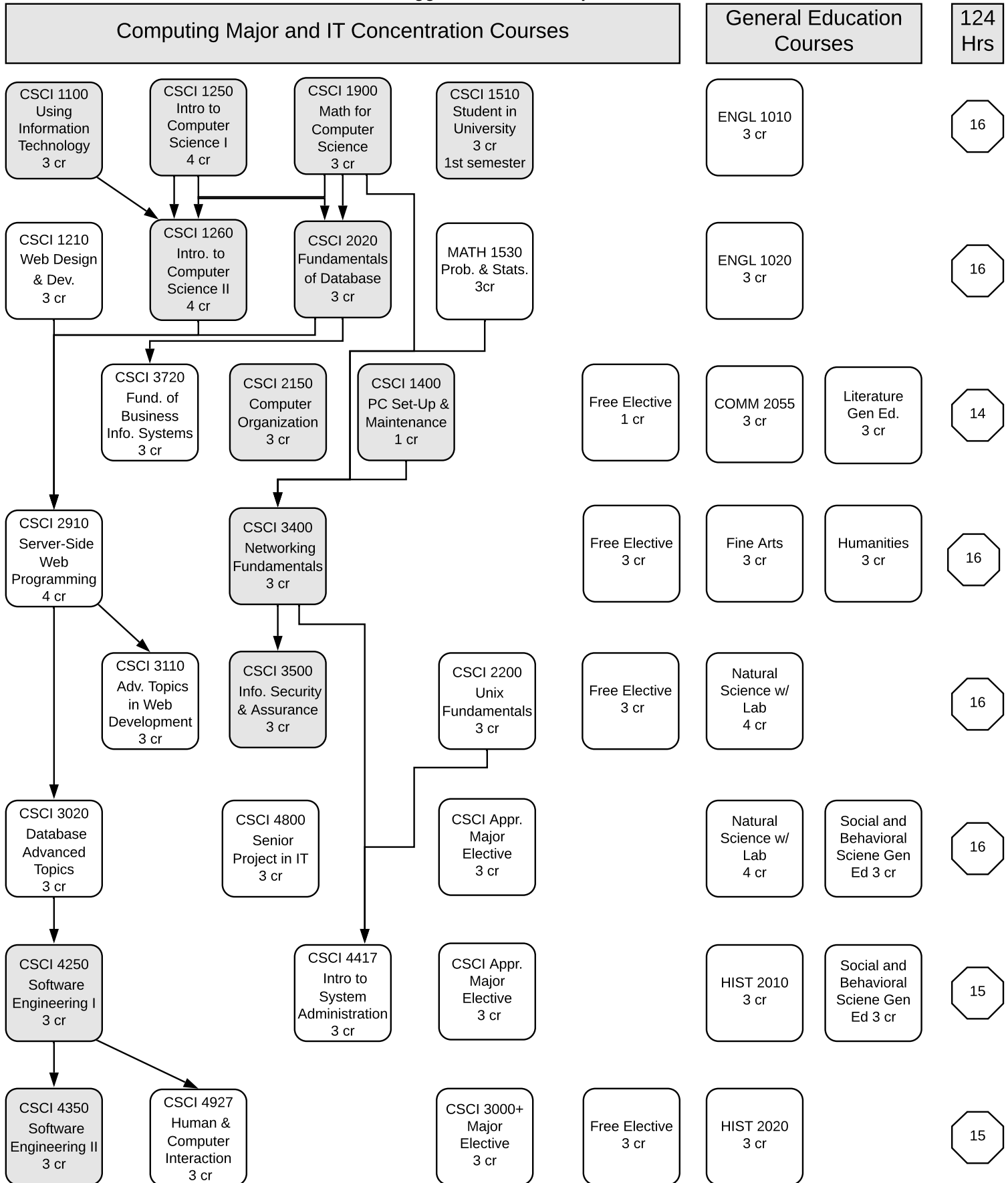


**Notes:**

- Each row represents 1 semester in Computing
- Not all prerequisites are represented in this chart
- Course prerequisites are on page 8 in booklet

- Student chooses emphasis in Accounting or Management.
- Shaded courses are part of the Computing Core
- Semesters may vary depending on availability & student progress

**Catalog Year 2019-2020  
Information Technology (IT)  
Suggested Course Sequence**



**Notes:**

- Each row represents 1 semester in Computing
- Not all prerequisites are represented in this chart
- Course prerequisites are on page 8 in booklet
- Shaded courses are part of the Computing Core
- Semesters may vary depending on availability & student progress

**Catalog Year 2019-2020**  
**Course List with Prerequisites**  
**(All PreReq Courses Require a C- or better unless otherwise notated)**

**CSCI Major Electives**

CSCI 1720 (3 cr)  
Intermediate Web

PreReqs:  
CSCI 1210

CSCI 4157 (3 cr)  
Interactive Graphics

PreReqs:  
CSCI 2210 & MATH 2010

CSCI 4317 (3 cr)  
Internet and Computer Law

PreReqs:  
60 hours completed

CSCI 4957 (3 cr)  
Special Topics

PreReqs:  
Varies

CSCI 4910 (3 cr)  
Select Topics

PreReqs:  
Varies

CSCI 4905 (3 cr)

Internship

(Can only be used for 1 CSCI Major Elective)

PreReqs:  
None

**Additional CSCI Major Electives should be chosen from concentrations outside of the student's current concentration.**

**Computing Core and CSCI 1100 (All computing majors take these courses)**

CSCI 1100 (3 cr)  
Using Information Technology

PreReqs:  
None

CSCI 1250 (4 cr)  
Intro. Computer Science I

PreReqs:  
LS-Math

CSCI 1260 (4 cr)  
Intro. Computer Science II

PreReqs:  
CSCI 1100, CSCI 1900, &  
CSCI 1250 (B- or Better)

CSCI 1400 (1 cr)  
PC Set-Up & Maintenance

PreReqs:  
CSCI 1100

CSCI 1510 (3 cr)  
Student in University

PreReqs:  
1st or 2nd Semester  
Freshman

CSCI 1900 (3 cr)  
Math for Computer Science

PreReqs:  
CoReq CSCI 1250

CSCI 2020 (3 cr)  
Fundamentals of Database

PreReqs:  
CSCI 1250 (B- or Better)  
& CSCI 1900

CSCI 2150 (3 cr)  
Computer Organization

PreReqs:  
CSCI 1250 (B- or Better)  
& CSCI 1900

CSCI 3400 (3 cr)  
Networking Fundamentals

PreReqs:  
CSCI 1400, CSCI 1900,  
CSCI 1260 (B- or Better) &  
(MATH 1530 or MATH 2050)

CSCI 3500 (3 cr)  
Info. Security & Assurance

PreReqs:  
CSCI 3400

CSCI 4250 (3 cr)  
Software Engineering I

PreReqs:  
(CSCI 3020 or CSCI 3230)

CSCI 4350 (3 cr)  
Software Engineering II

PreReqs:  
CSCI 4250

**Cybersecurity and Modern Networks (CSMN)**

CSCI 2200 (3 cr)  
Unix Fundamentals

PreReqs:  
CSCI 1260 (B- or Better)

CSCI 2210 (4 cr)  
Data Structures

PreReqs:  
CSCI 1900 &  
CSCI 1260 (B- or Better)

CSCI 2160 (4 cr)  
Assembly Language

PreReqs:  
CSCI 2150 &  
CSCI 1260 (B- or Better)

CSCI 3410 (3 cr)  
Enterprise Information Security

PreReqs:  
CSCI 2160, CSCI 2200,  
& CSCI 3500

CSCI 3600 (3 cr)  
Computer Scripting

PreReqs:  
CSCI 2200 & CSCI 3500

CSCI 3610 (3 cr)  
Secure Coding

PreReqs:  
CSCI 2150 &  
(CSCI 2910 or CSCI 2210)

CSCI 4507 (3 cr)  
Computer Forensics

PreReqs:  
(CSCI 2210 or CSCI 2910)

CSCI 4537 (3 cr)  
Ethical Hacking

PreReqs:  
(CSCI 2210 or CSCI 2910)

CSCI 4607 (3 cr)  
Information Risk Mgmt.

PreReqs:  
CSCI 3410

CSCI 4637 (3 cr)  
Wireless & Mobile Computing

PreReqs:  
CSCI 2160, CSCI 2200,  
& CSCI 3500

CSCI 4657 (3 cr)  
Cloud Computing

PreReqs:  
CSCI 2210 & CSCI 3500

CSCI 4677 (3 cr)  
Internet of Things (IoT)

PreReqs:  
CSCI 4637 & CSCI 4657

MATH 1910 (4 cr)  
Calculus I

MATH 2050 (3 cr)  
Probability & Statistics -  
Calculus Based

PreReqs:  
MATH 1910

**Catalog Year 2019-2020**  
**Course List with Prerequisites**  
**(All PreReq Courses Require a C- or better unless otherwise notated)**

**Computer Science (CS)**

<p>CSCI 2200 (3 cr) Unix Fundamentals</p> <p>PreReqs: CSCI 1260 (B- or Better)</p>	<p>CSCI 2210 (4 cr) Data Structures</p> <p>PreReqs: CSCI 1900 &amp; CSCI 1260 (B- or Better)</p>	<p>CSCI 2160 (4 cr) Assembly Language</p> <p>PreReqs: CSCI 2150 &amp; CSCI 1260 (B- or Better)</p>	<p>CSCI 3230 (4 cr) Algorithms</p> <p>PreReqs: CSCI 2210 &amp; MATH 1920</p>	<p>CSCI 4717 (3 cr) Computer Architecture</p> <p>PreReqs: CSCI 2160 &amp; CSCI 3230</p>
<p>CSCI 4727 (3 cr) Operating Systems</p> <p>PreReqs: CSCI 2160, CSCI 2210, &amp; CSCI 2200</p>	<p>MATH 1910 (4 cr) Calculus I</p>	<p>MATH 1920 (4 cr) Calculus II</p> <p>PreReqs: MATH 1910</p>	<p>MATH 2010 (3 cr) Linear Algebra</p> <p>PreReqs: MATH 1910</p>	<p>MATH 2050 (3 cr) Probability &amp; Statistics - Calculus Based</p> <p>PreReqs: MATH 1910</p>

**Information Systems (IS)**

<p>CSCI 1210 (3 cr) Web Design &amp; Dev.</p> <p>PreReqs: None</p>	<p>CSCI 2910 (4 cr) Server-Side Web Programming</p> <p>PreReqs: CSCI 1210, CSCI 2020, &amp; CSCI 1260 (B- or Better)</p>	<p>CSCI 3020 (3 cr) Database Advanced Topics</p> <p>PreReqs: (CSCI 2910 or CSCI 2210) &amp; CSCI 2020</p>	<p>CSCI 3720 (3 cr) Fund. of Business Info. Systems</p> <p>PreReqs: CSCI 2020</p>	<p>CSCI 4757 (3 cr) IS Implementation Fall Only</p> <p>PreReqs: CSCI 3720</p>
<p>CSCI 4767 (3 cr) Enterprise Programming Spring Only</p> <p>PreReqs: (CSCI 2210 or CSCI2910) &amp; CSCI 3720</p>	<p>CSCI 4770 (3 cr) IS Strategy &amp; Management</p> <p>PreReqs: CSCI 3720 &amp; ACCT 2010</p>	<p>MATH 1530 (3cr) Probability &amp; Statistics - Noncalculus</p>	<p>MATH 1910 (4 cr) Calculus I <b>OR</b> MATH 1840 (3 cr) Analytic Geometry and Differential Calculus</p>	

**Accounting Emphasis 15 credits**

ECON 2210 Principles of Macroeconomics (3 cr)  
ACCT 2010 Principles of Accounting I (3 cr)  
ACCT 2020 Principles of Accounting II (3 cr)  
ACCT 3020 Financial Accounting (3 cr)  
ACCT 3110 Management Accounting (3 cr)

**Management Emphasis 15 credits**

ECON 2210 Principles of Macroeconomics (3 cr)  
ACCT 2010 Principles of Accounting I (3 cr)  
MGMT 3000 Organizational Behavior & Management (3 cr)  
MGMT 4020 Organizational Theory & Development (3 cr)  
MGMT 4030 Current Management Issues (3 cr)

**Information Technology (IT)**

<p>CSCI 1210 (3 cr) Web Design &amp; Dev.</p> <p>PreReqs: None</p>	<p>CSCI 2200 (3 cr) Unix Fundamentals</p> <p>PreReqs: CSCI 1260 (B- or Better)</p>	<p>CSCI 2910 (4 cr) Server-Side Web Programming</p> <p>PreReqs: CSCI 1210, CSCI 2020, &amp; CSCI 1260 (B- or Better)</p>	<p>CSCI 3020 (3 cr) Database Advanced Topics</p> <p>PreReqs: (CSCI 2910 or CSCI 2210) &amp; CSCI 2020</p>	<p>CSCI 3110 (3 cr) Adv. Topics in Web Development</p> <p>PreReqs: CSCI 2910</p>
<p>CSCI 3720 (3 cr) Fund. of Business Info. Systems</p> <p>PreReqs: CSCI 2020</p>	<p>CSCI 4417 (3 cr) Intro to System Admin.</p> <p>PreReqs: CSCI 2150, CSCI 2200, &amp; CSCI 3400</p>	<p>CSCI 4800 (3 cr) Senior Project in IT</p> <p>PreReqs: Senior Status within 4 semesters of graduation</p>	<p>CSCI 4927 (3 cr) Human &amp; Computer Interaction</p> <p>PreReqs: CSCI 4250</p>	<p>MATH 1530 (3cr) Probability &amp; Statistics - Noncalculus</p>

# Notes

## Computing Minor Requirements

Name: \_\_\_\_\_  
 ENumber: \_\_\_\_\_

- CSCI 1250 Intro. to Computer Science I 4 cr.
- CSCI 1900 Math for Computer Science 3 cr.
- CSCI 1260 Intro. to Computer Science II 4 cr.
- Approved CSCI Elective (Recommend a 2xxx Level Course) 3 cr.
- CSCI 3xxx or 4xxx Level Course 3 cr.
- CSCI 3xxx or 4xxx Level Course 3 cr.
- CSCI 3xxx or 4xxx Level Course 3 cr.

**Total Credit Hours: 23 cr.**

### Minor Suggested Course Sequence based on Interests

Business Interest	Programming Interest	Networking & Security Interest
	*Requires MATH 1910 & 1920	
First Semester	First Semester	First Semester
CSCI 1250 Intro to Computer Science I (4)	CSCI 1250 Intro to Computer Science I (4)	CSCI 1250 Intro to Computer Science I (4)
CSCI 1900 Math for Computer Science (3)	CSCI 1900 Math for Computer Science (3)	CSCI 1900 Math for Computer Science (3)
Second Semester	Second Semester	Second Semester
CSCI 1260 Intro to Computer Science II (4)	CSCI 1260 Intro to Computer Science II (4)	CSCI 1260 Intro to Computer Science II (4)
CSCI 2020 Intro to Database (3)		CSCI 2150 Computer Organization (3)
		CSCI 1400 PC Set-Up and Maintenance (1)
Third Semester	Third Semester	Third Semester
CSCI 3720 Fund. Of Business Info Systems (3)	CSCI 2210 Data Structures (4)	CSCI 3400 Networking Fundamentals (3)
Fourth Semester	Fourth Semester	Fourth Semester
CSCI 4757 Info. System Implementation (3)	CSCI 3230 Algorithms (4) *	CSCI 3500 Information Security & Assurance (3)
CSCI 4957 Special Topics Course (3)	CSCI 4957 Special Topics Course (3)	CSCI 4957 Special Topics Course (3)
	Fifth Semester	
	CSCI 3250 Software Engineering I (3)	
23 Credit Hours	25 Credit Hours	24 Credit Hours



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