

Undergraduate Handbook 2015-2016 Edition

Department of Computer Science
California State University, Fullerton

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Introduction

1.1 The field of computer science

Computer Science is the systematic study of computing systems and computation. The body of knowledge contains the theoretical foundation for understanding computing systems and methods, design methodology, algorithms, and software and hardware tools.

These programs cover a wide range of areas, including:

- multimedia and digital game technologies,
- Internet and enterprise computing,
- wireless and mobile computing,
- databases and data mining,
- computer security,
- software engineering, and
- computational bioinformatics.

Computer Science prepares graduates for rewarding careers in all areas of business, government, education and industry. These organizations, large and small, need computer professionals to address their needs with specific programs and systems. Computer science professionals tackle complicated problems and create computer solutions to solve them, devising new ways to use computers.

1.2 The department

The faculty and staff of the Computer Science Department welcome you into our program and sincerely wish you good luck on your journey into higher education, and continued success.

Whenever you have a question about the Department—its policies, its curriculum, its services, your progress, or anything else—feel free to contact us.

Web: <http://fullerton.edu/ecs/cs/>
E-mail: csoffice@ecs.fullerton.edu
In person: Room CS-522
Telephone: (657) 278-3700
Fax: (657) 278-7168
Postal mail: California State University, Fullerton
Department of Computer Science
P.O. Box 6870
Fullerton, CA 92834-6870

1.3 Accreditation

The Bachelor of Science in Computer Science degree at CSUF is accredited by the Computer Accreditation Commission of ABET (<http://www.abet.org>).



1.4 The programs

The Department offers the following Undergraduate programs, which are documented in this Handbook:

1. Bachelor of Science in Computer Science (BS CS), and
2. Minor in Computer Science.

The Department also offers Graduate programs, which are documented elsewhere:

1. Master of Science in Computer Science (MS CS),
2. Master of Science in Software Engineering (MSE), and
3. Accelerated Master of Science in Software Engineering (AMSE).

CS courses are also components of Computer Engineering, Electrical Engineering, and Mathematics programs at CSUF.

1.5 Objectives and Outcomes

The Program Educational Objectives and Program Outcomes for the BS CS are documented in the University Catalog.

1.6 Using this document

This handbook covers information on how to earn a BS or a Minor in Computer Science, and contains information relevant to students pursuing them. If you are pursuing a Masters degree, please refer to the Graduate Handbook instead of this document.

In order to minimize duplicated information, this document references other documents rather than copying their content. The PDF version of this Handbook presents these references as clickable links.

Some aspects of our programs are complex, and you may find it difficult to choose among alternatives. In those cases, we present our suggested default choice as a tip, as shown below. You are not required to obey these tips, but doing so is often a prudent choice.

TIP When in doubt, heed tips such as this one.

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Other sources of information

The following resources supplement this Handbook:

- The University Catalog: <http://catalog.fullerton.edu/>
- Advising:
 - CS Department Advising: <http://fullerton.edu/ecs/cs/resources/advisement.asp>
 - Center for Academic Support in ECS (CASECS): <http://www.fullerton.edu/ecs/resources/casecs.asp>
 - Student Success Center: <http://www.fullerton.edu/ecs/resources/StudentSuccessCenter.asp>
 - Academic Advisement Center (GE advising): <https://www.fullerton.edu/aac/>
- Department of Computer Science website: <http://fullerton.edu/ecs/cs/>
 - Student Resources: <http://fullerton.edu/ecs/cs/resources/index.asp>
- General Education website: <http://www.fullerton.edu/undergraduate/generaledu/>
- Course transfer database: <http://www.assist.org>

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The CS Major

3.1 Major requirements at a glance

The requirements for the CS BS are detailed in the University Catalog. The requirements fit into 7 categories:

1. *Lower-Division Core*: 100/200-level CPSC courses covering computer programming, data structures, and hands-on software development practices.
2. *Examination in Programming Proficiency (EPP)*: This comprehensive exam establishes mastery of essential Lower-Division Core material, and must be passed before taking Elective Track or most Upper-Division Core courses.
3. *Mathematics Requirements*: MATH courses laying the foundation for CS theory and practice.
4. *Science and Mathematics Electives*: Physical science and/or mathematics courses that provide a breadth of scientific knowledge and prepare students for certain upper-division electives.
5. *Upper-Division Core*: 300/400-level CPSC courses that build directly upon the Lower-Division Core, Mathematics, and Science courses listed above, and complete the computer science canon.
6. *Elective Track*: You may choose whichever of the five tracks that meshes best with your interests and career goals.
7. *General Education (GE)*: A blend of varied topics that round out a broad, liberal arts education, and satisfy University graduation requirements.

Our accreditor, ABET, requires at least 30 units of mathematics and science courses. The Mathematics Requirements and Science and Mathematics Electives together satisfy the 30-unit requirement.

3.2 Major prerequisite tree

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3.3 Lower-Division Core

The first three courses in the major are CPSC 120, 121, and 131. These courses must be taken in sequence, and are prerequisites to practically every other CS course.

TIP Prioritize completing CPSC 120, 121, then 131 as soon as possible.

If you come to CSUF with prior programming expertise, you may be able to skip some of these courses. See sections 5.2 and 5.3.

Our introductory programming courses are taught in C++, but cover concepts that are common to practically all programming languages. To establish some breadth of programming fluency, you are required to learn a second object-oriented programming language. This is accomplished by passing one of the CPSC 223 courses, or equivalent.

TIP CPSC 223J - Java Programming (3) is a prerequisite to CPSC 376 - Client/Server Systems with Java (3) and CPSC 476 - Java Enterprise Application Development (3). CPSC 476 is required for the Internet and Enterprise Computing Technologies (IE) track. If you anticipate taking the IE track, or taking 376 or 476 as a Free Elective, choose 223J.

3.4 Examination in Programming Proficiency (EPP)

You must pass the Examination in Programming Proficiency (EPP) before taking most of the 300-level and 400-level Computer Science courses. This examination determines whether you have the basic programming skills needed to succeed in upper division courses. It focuses on the concepts and skills covered in CPSC 121 and CPSC 131.

TIP Take the EPP as soon as possible after completing CPSC 131.

The EPP is given as part of CPSC 301 (Programming Lab Practicum). You must register in CPSC 301 and attend the first two weeks of the course. After an orientation meeting at the first class meeting, you will take a two-part exam during the second and third class meetings. You will be notified at the fourth meeting whether you have passed or not. If you pass, you may drop the course before the end of the second week of classes. You are responsible for dropping the class; you will not be automatically dropped if you pass the exam. If you do not pass, you must continue in CPSC 301 and work on your programming skills. Passing CPSC 301 is equivalent to passing the Examination in Programming Proficiency.

The EPP is a prerequisite or co-requisite for several 300-level core courses as shown in the prerequisite tree in section 3.2. These courses are prerequisites in turn for other 300- or 400-level courses. The EPP is a prerequisite for the remaining 400-level courses that are not in this thread, except for CPSC 440 (Computer System Architecture). There are very few upper-division courses that you can take without passing the EPP or CPSC 301. You should consult the Department Office for advisement.

3.5 Mathematics Requirements

Before enrolling in Math 150A, you must either have recently passed Math 125 (Pre-calculus), or an equivalent course at another institution, or passed the Mathematics Qualifying Exam. Additional information on this exam is available in the online registration guide, and from the Fullerton Testing Center, University Hall 229, and (657) 278-3838.

3.6 Science and Mathematics Electives

As stated in the University Catalog, you must complete at least 12 units of natural science and/or mathematics courses chosen from a designated list. The list includes only courses that dovetail with CS material, and may fit within a coherent 12-unit curriculum. Due to GE and ABET requirements, you must take at least one course with a hands-on laboratory experience. Eligible laboratory courses are designated in the Catalog.

Choose a set of courses that support each other and your future studies. Plan ahead, and discuss your plan for this requirement with your adviser.

TIP

PHYS 225, 225L, 226, 226L, and MATH 250A provide a strong foundation for later CS courses, meet all Science and Mathematics requirements, and fit within 12 units. Take this set of courses unless you are working toward a specific study plan focusing on biology, chemistry, geology, or mathematics.

MATH 250A and MATH 250B may not be counted toward both the Scientific Computing Track and Science and Mathematics Electives. Students who apply these courses toward Science and Mathematics Electives may substitute adviser-approved 400-level CPSC courses to meet the 15-unit requirement of the Scientific Computing Track.

TIP

If you are working toward the Scientific Computing Track, complete this requirement with MATH 250A, MATH 250B, PHYS 225, and PHYS 225L. This will give you substantial flexibility in choosing electives to finish the track, and help you complete prerequisite courses rapidly.

3.7 Upper Division Core

The University requires every bachelor degree candidate to take an upper division writing course. CPSC 311 (Technical Writing for Computer Science) meets the writing course requirement. This course must be passed with a minimum grade of C (2.0) or better.

3.8 Elective Tracks

Computer Science is a very broad field and the technologies in each area change rapidly. Elective tracks provide you with flexible choices of elective courses so you can quickly adapt to rapid technology advancements and meet your professional goals.

You must select an elective track aimed at your specific career goals. There are five tracks to choose from. The requirements for each track are given in the Catalog.

3.8.1 Multimedia and Digital Games (MG)

Interactive entertainment and computer-animated visual effects are now part of our mainstream culture. Creating such sophisticated computer graphics in the video games and animations requires a delicate blending of art with science by teams of highly skilled professionals. Artists, animators, writers, designers, and software developers work long hours with cutting-edge technology and tools. This track gives you the necessary skills in multimedia/digital animation and simulation, human/computer interfaces, digital game development and production.

3.8.2 Internet and Enterprise Computing (IE)

The Internet is an essential technology for most computer users. Although Internet technology provides many people with convenience and opportunity, it provides computer scientists with challenges since the Internet applications must be scalable, distributed, secure, and high performance. This track gives you the skills needed to develop enterprise-wide Internet applications using current technologies.

3.8.3 Software Engineering (SE)

Software engineering is the discipline of developing and maintaining large software systems that behave reliably and efficiently. Recently it has evolved in response to the increased importance of software in safety-critical applications and to the growing impact of large and expensive software systems in a wide range of situations. This track will prepare students to have necessary skills on how to assess customer needs, and develop usable and high quality software that meets those needs, and manage large scale software development projects.

3.8.4 Scientific Computing (SC)

Scientific Computing is the field of study concerned with constructing mathematical models and numerical solutions, using computers to solve scientific and engineering problems that typically require massive amounts of computation.

This track gives you the skills needed to construct mathematical models, adapt numerical solutions, and develop computer software to solve scientific and engineering problems. You must take these courses:

Completing the requirements for the Scientific Computing track also satisfies the requirements for a Mathematics minor.

3.8.5 Customized (CT)

This track provides you with great flexibility to build your knowledge and skills in special areas of interest. You can use it to meet the requirements of specific industry sectors or companies, or your personal academic goals.

The Customized track is intended to accommodate student career goals that are not served by any of the four other, more focused, tracks. For example, a student may wish to focus on an emerging area such as cybersecurity, robotics, or data science. If you intend to complete the Customized track, work with your adviser to make a plan for a set of courses that form a coherent course of study aligned with your goals.

3.9 Free Electives

Your Elective Track will require you to take some number of Free Elective courses. You may need to take additional Free Electives if you are short on units due to the Placement Examination, transfer, or other circumstances.

A course may be used as a Free Elective if it is

1. a CPSC course;
2. 3 units;
3. upper-division (300/400-level); *and*
4. a requirement for any of the Elective Tracks.

Therefore, the following courses may count as Free Electives:

- CPSC 303 - Multimedia Concepts (3)
- CPSC 322L - Introduction to Computer-Aided Design (3)
- CPSC 353 - Introduction to Computer Security (3)
- CPSC 376 - Client/Server Systems with Java (3)
- CPSC 386 - Introduction to Game Design and Production (3)
- CPSC 439 - Theory of Computation (3)
- CPSC 452 - Cryptography (3)
- CPSC 454 - Cloud Computing and Security (3)
- CPSC 456 - Network Security Fundamentals (3)
- CPSC 459 - Micro-Computer Software Systems (3)
- CPSC 462 - Software Design (3)
- CPSC 463 - Software Testing (3)
- CPSC 464 - Software Architecture (3)

- CPSC 466 - Software Process (3)
- CPSC 477 - Introduction to Grid Computing (3)
- CPSC 483 - Data Mining and Pattern Recognition (3)
- CPSC 484 - Principles of Computer Graphics (3)
- CPSC 485 - Computational Bioinformatics (3)
- CPSC 486 - Game Programming (3)
- CPSC 489 - Game Development Project (3)
- CPSC 491T - Variable Topics in Computer Science (3)
- CPSC 495 - Internship in Computer Science (3)
- CPSC 499 - Independent Study (3)

You may be able to use an adviser-approved course not on this list as a Free Elective. Such a course must be at least 3 units and directly related to your academic goals. If this interests you, discuss it with a major adviser. You may need to file a petition; see section 6.9.

3.10 General Education (GE)

The Undergraduate Studies & General Education website (<http://www.fullerton.edu/undergraduate/generaledu/>) describes University GE requirements in detail. The list of all GE-approved courses is on the [How do I find which courses are approved for GE?](#) page. CSUF students are ordinarily required to take at least 51 units and 19 categories of GE courses. CS majors meet some of these requirements through their required courses, and some requirements are waived for CS majors.

GE requirement	Satisfied by
A.3. Critical Thinking (3 units)	waived for CS majors
B.1. Physical Science (3 units)	Science and Mathematics Electives
B.2. Life Science (3 units)	waived for CS majors
B.3. Laboratory Experience	Science and Mathematics Electives
B.4. Mathematics and Quantitative Reasoning (3 units)	MATH 150A, required for Mathematics Requirements
B.5. Implications and Explorations of Mathematics and Natural Sciences (3 units)	MATH 338, required for Mathematics Requirements
D.2. World Civilizations and Cultures (3 units)	waived for CS majors who take HIST 110A to satisfy C.4
D.5. Explorations in Social Sciences (3 units)	waived for CS majors
E. Lifelong Learning and Self Development (3 units)	waived for CS majors
Total: 24 units, 9 categories	

This leaves 27 units and 10 categories which must be satisfied by additional courses.

In addition, CSUF students are required to take at least 9 units of GE at the upper-division (300/400) level. 4 of these are satisfied by MATH 338, so at least 5 of your additional GE units must be upper-division. CS majors may use

EGCE/CP/EE/ME 401 to satisfy GE area D.1, leaving 2 units which may be satisfied by choosing an upper-division course in area C.3.

The following table lists the remaining GE categories, and an example course for each category.

A.1. Oral Communications (3 units)	HCOM 102 Public Speaking (3)
A.2. Written Communications (3 units)	ENGL 101 - Beginning College Writing (3)
C.1. Introduction to Art (3 units)	ART 101 - Introduction to Art (3) (many alternatives)
C.2. Introduction to Humanities (3 units)	LING 106 - Language and Linguistics (3) (many alternatives)
C.3. Explorations of Arts and Humanities (3 units)	MUS 303 - World Music (3); C.1 is prerequisite (many alternatives)
C.4. Origins of World Civilization (3 units)	HIST 110A - World Civilizations to the 16th Century (3)
D.1. Introduction to Social Sciences (3 units)	EGCE/CP/EE/ME 401
D.3. American History, Institutions and Values (3 units)	AMST 201 - Introduction to American Studies (3) (many alternatives)
D.4. American Government (3 units)	POSC 100 - American Government (3)
Z. Cultural Diversity	already satisfied by MUS 303 above
Total: 27 units, 10 categories	

TIP

To conserve units, make sure that the course you take for category C.3 is upper-division and also satisfies category Z. Z-category courses are marked with an asterisk on the How do I find which courses are approved for GE? page.

TIP

To conserve units, take HIST 110A to satisfy area C.4.

TIP

To satisfy the upper-division GE requirement with minimal courses, take EGCE/CP/EE/ME 401 to satisfy GE area D.1.

3.11 Academic Requirements

The GPA for courses required in your major must remain at or above 2.0.

Grade requirements for courses are summarized below.

Course Type	Minimum Grade
Lower-Division Core	C-
Mathematics Requirements	C- (★ see below)
MATH 150A, to satisfy the GE B.4 requirement	C
Science and Mathematics Electives	C- (★ see below)
Upper-Division Core (except CPSC 311)	C-
CPSC 311 (upper-division writing)	C
Elective Track	C- (★ see below)
GE categories A.1 and A.2	C
Other GE categories	C-

★ A total of up to six units of grades in the range “D-” through “D+” may be applied toward major Mathematics Requirements, Science and Mathematics Electives, and Elective Track courses. These “D” units are not counted automatically; you must file a Petition to have them counted. See section 6.9.

3.12 Double-majoring in a related field

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The CS Minor

4.1 Minor requirements at a glance

The requirements for the CS minor are detailed in the University Catalog. You are required to complete the following courses:

1. The same three-course programming sequence (CPSC 120, 121, and 131) as CS majors.
2. CPSC 313, which satisfies GE B.5.
3. One Minor Elective: an adviser-approved 3-unit 300/400-level CS course.

You may have to take additional courses to meet the prerequisites for your CS courses.

At least 6 units must be upper division (300/400 level) and completed at CSUF. At least 12 units, including the minimum 6 units of upper division course work, must be courses that are not being used to fulfill requirements for your major.

4.2 Minor prerequisite tree

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4.3 Suggested minor electives

There are many 300/400-level CS courses to choose from, but most of them have significant prerequisites, which may be an obstacle.

The following courses may be used as Minor Electives, and have no prerequisites aside from CPSC 120, 121, and 131:

1. CPSC 332 - File Structures and Database Systems (3)
2. CPSC 386 - Introduction to Game Design and Production (3)

4.4 For majors in related fields

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Alternative pathways

5.1 Transfer

If you're a transfer student from a local community college, you should refer to <http://www.assist.org>. A department adviser can help you with these equivalencies and give the required approval.

Transfer courses cannot be applied toward the major or accepted as prerequisites until the Department receives a transcript from the school where the courses were taken. You can provide an unofficial copy of your transcript to the Department for short-term advising purposes, but you must provide an official transcript to the University as soon as it's available. You should bring the sealed official transcript to the Department office so the staff can copy it and take it to University Admissions and Records.

5.2 Computer Science Placement Examination

Our courses CPSC 120 and CPSC 121 cover computer programming. If you are proficient in this material, but do not have academic credit, you may attempt to establish your proficiency and skip one or both courses by taking the Computer Science Placement Examination. If you have taken CPSC 120, 121, or 131 at CSUF, you are not eligible to take the Placement Examination. See the Department's section of the University Catalog for more information.

If you test out of one or both courses, you will be short on units in the Lower Division Core major requirement. You will need to earn substitute units by taking extra units of CPSC 223 and/or Free Electives (listed in section 3.9).

5.3 Advanced Placement (AP)

If you took the Computer Science AP exam and scored well, you may be able to get credit for CPSC 120, or both 120 and 121. See the Credit by Advanced Placement Chart in the University Catalog.

5.4 Internships

5.5 Independent Study

You may take CPSC 499 Independent Study as a Free Elective. This course allows you to pursue topics of special interest beyond those of a regular course.

You must submit an Application For Independent Study to the department office, which will supply the form. The application must include a study plan and objectives, and must be approved by a supervising fulltime faculty member and by the department chair.

You may take up to three units per semester, and apply a maximum of three units towards the degree. The University allows a maximum of nine units, but the Computer Science Department allows only three units.

You will not be able to register for this course until the Department grants you permission to do so. You should contact the Department to verify that this has been done.

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Advisement

It can be frustrating to find out that you took a class that wasn't useful for your course of study. Not being able to take a class when you want because of a needed prerequisite is even worse—it slows your progress and can delay your graduation. To avoid problems like these, the University offers advisement counseling to all students. This is your opportunity to review your progress toward your degree and to discuss electives that match your career goals.

6.1 Major Advisement

You have to set up an advisement appointment yourself. Contact the department and ask for an advisement appointment. Our contact information is in section 1.2

6.2 Required Advisement

The College of Engineering and Computer Science places a registration hold on all undergraduate students once a year to ensure the student meets with a department advisor. Students whose surname begins with “A” thru “M” will have a hold each Fall term. Those whose surname begins with “N” thru “Z” will find a registration hold each Spring term. You will not be able to register for any courses until you consult with a department advisor and the hold is subsequently removed.

6.3 General Education (GE) Advisement

The University encourages all students to seek GE advisement, each semester, well in advance of registration. You may obtain information about the Cal State Fullerton GE curriculum and degree requirements by visiting the Academic Advisement Center in UH-123B.

6.4 First-time freshmen

You should make an appointment to see the department adviser as early as possible. Its very important that you understand the program and the sequence in which you should take courses.

6.5 Transfer students

You should make an advisement appointment as early as possible. The department adviser can answer your questions about transfer credit for general education courses and can evaluate courses that apply to your major. Please bring any transcripts or grade reports you have, official or not, to this appointment. A catalog from your prior institution may prove useful, particularly from those outside the Orange County area.

6.6 Nearing graduation (within one year)

After completing 90 units of coursework, you are eligible to apply for graduation. The only way to apply for graduation is online through the TITAN Online Student Center. You cannot graduate without a completed Grad Check. The University Catalog has more information on Grad Checks.

6.7 Probation

If you are on probation, it is definitely time to see an adviser. Until you do so, a hold will be in place on your file, preventing you from registering in classes. Your adviser will discuss with you the problems that led to your probation and review strategies you should take to get off probation. Make your advisement appointment early so your registration is not held up.

6.8 Your Catalog Year

Be sure to follow the course requirements for your catalog year. Your catalog year is determined by the Admissions Office and is a part of your student records. Typically, this is the year you began college; occasionally an adviser may approve a later year.

6.9 Petitions

If you are subject to unusual circumstances that you feel are not accommodated appropriately by Department policies, you may request an exception by filing a formal petition with the Department. There are two kinds of petitions:

1. File a *Prerequisite Waiver* form when you do not meet the formal prerequisites for a course, yet are indeed prepared to take the course. This may be appropriate if, for example, you have taken equivalent courses at

another institution that has no articulation agreement with CSUF, so they do not register as equivalent in Titan Degree Audit.

2. File a *Petition* form to request an exception to any Department policy other than course prerequisites.

Blank forms are available digitally on the web, or as hard-copies in the Department office. To file a petition, submit a completed hard-copy form to the Department office. Petitions are generally processed within two weeks while Fall or Spring classes are in session, or three weeks during the Summer and Intersession. After this time has elapsed, contact the Department office to find out whether your petition was approved or denied.

The Department strives to minimize prerequisites and make its policies as flexible as possible. As such, established policies handle most situations appropriately, and petitions are only granted in truly exceptional situations. The onus is on the petitioner to justify why a petition ought to be approved; the Department need not justify why a petition is denied. Petition verdicts are final and non-negotiable.

See the Student Rights section of the Catalog for more information on petitions.

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Progress Flowcharts

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Credits and Revision History

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