

**Instructor**

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*Online Office Hours:* via [Zoom Meeting](#): TR: 10:00 AM – 11:00 AM; or by appointment

**Class place, times, and websites**

**Class Times:** 01: TR 8:30 – 9:45 AM; 02: TR 3:35 PM – 4:50 PM

>>>> **All classes are conducted synchronously via Zoom with physical access to the classroom.**

**ZoomRooms:** you MUST login using CofC email : see [how-to](#)

01: [here](#); 02: [here](#)

**Classroom:** Harbor Walk East 301 - please observe [Cougar Pledge](#) if you use it.

**Class Websites:** 01: [here](#); 02: [here](#) (navigate from <http://bowringj.people.cofc.edu/>)

**Catalog description**

CSCI 362 – Software Engineering – This course examines the discipline and practice of software engineering, providing historical and contemporary views, while examining software development process models with emphasis on the pertinent roles, activities, and artifacts present at each stage of development. Related ethical issues are explored. Lectures three hours per week. *Prerequisites:* CSCI 230, MATH 207, and COMM 104.

**Course Description with Course Outcomes**

<http://bowringj.people.cofc.edu/classes/csci%20362/docs/CourseDescriptionCSCI%20362.2011.ABET2012r.pdf>

**Required text**

[Software Engineering](#), 10th Edition, by Ian Sommerville, Addison-Wesley, 2015. CofC Bookstore: \$81 used; \$181 new.

**Electronic Resources**

- 1) Software Engineering Body of Knowledge ([SWEBOK](#))
- 2) The College of Charleston [Libraries](#) supply free full access to a wide range of electronic resources, including the [ACM Digital library](#) and the [IEEE Computer Society Journals](#).
- 3) [Center for Student Learning](#)
- 4) Career Planning Guide provided by the [Career Center](#)
- 5) [Git](#), [GitHub](#), [Ubuntu](#), [VirtualBox](#)

**Learning Objectives**

The principal objective of this course is to prepare you for your career as a software engineer or software architect by exploring historical and contemporary issues in Software Engineering (SE). These issues include: SE and its relation to computer science and other engineering disciplines, SE licensure and certification, socio-technical systems, safety-critical systems, ethical issues in SE, SE methodologies, development theory, and practice, SE team dynamics, SE project management, SE emerging technologies. Upon completion of this course, you will have a working knowledge of these areas based on extensive readings, research, writing, and speaking assignments. You will also gain critical analysis skills to enable you to analyze and assess SE processes and artifacts and to think holistically about software engineering.

## **Professional Development**

I highly recommend that you join one or more of: the Association for Computing Machinery ([ACM](#) = \$19 for a student), the Institute of Electrical and Electronics Engineers ([IEEE Computer Society](#)), [National Center for Women and Information Technology](#). All offer student memberships. We have a College of Charleston [student chapter of the ACM](#), student chapter of [Women in Computing](#) (WIC), a cybersecurity club, and a data science club, all of which you are encouraged to join and attend. In your professional career as a software engineer / architect, your employers will likely expect you to maintain at least one of these memberships. The department has several undergraduate [research labs](#).

## **Team Projects**

Students will form into teams during the first week of class. I will assign a series of small team projects to help with team development. There will be a **term** team-project to solve a specific problem and produce a series of deliverables including a wiki, term paper, poster, and an oral presentation. I encourage students to plan to present their posters at the annual School of Science and Mathematics Poster Session in April 2021.

## **Attendance, class participation, and oral presentations**

Since this course is fully online, you are expected to attend with a camera and microphone ready to activate when you speak. Your active participation will lead to your success and to the success of the class. I expect you in virtual class on time and well-prepared. You will give a 5-minute oral presentation as part of your team project.

## **Blog, Wiki, and Assignment policy**

You will maintain a professional-grade blog titled with your full name where you will post all individual assignments by the date specified. Your team will maintain a professional-quality wiki where you will post all team assignments by the date specified. Each assignment must be professional in appearance with pertinent identifying information.

## **Instructor availability**

I am here to teach, advise, and assist you. Contact me via email, phone, or message.

## **Disabilities**

If you have a documented disability and are approved to receive accommodations through [SNAP Services](#), please contact me during office hours or by appointment.

## **Student Conduct**

I expect you to abide by <http://deanofstudents.cofc.edu/honor-system/studenthandbook/>, which includes sections on conduct and the Honor Code. If you have a question about how to interpret the Honor Code, ask before acting! I encourage collaboration on assignments and projects, but you must document the collaboration with the names of your collaborators on the assignment.

## **Grading scale**

100-90 (A); 89-80 (B); 79-70 (C); else (F). Plus/minus grades given by instructor discretion.

## **Evaluation schedule**

50% Blog and assignments

50% Team projects including term-paper, poster, wiki, and in-class oral presentations

### **Mental & Physical Wellbeing**

At the college, we take every students' mental and physical wellbeing seriously. If you find yourself experiencing physical illnesses, please reach out to student health services (843.953.5520). If you find yourself experiencing any mental health challenges (for example, anxiety, depression, stressful life events, sleep deprivation, and/or loneliness/homesickness) please consider contacting the Counseling Center on the 3rd Robert Scott Small Building at <http://counseling.cofc.edu> or 843.953.5640, or contact the Students 4 Support certified volunteers on the 3rd Floor of the Stern Center in person or by texting "4support" to 839863.

### **Food & Housing Resources**

Many CofC students report experiencing food and housing insecurity. If you are not able to afford groceries or to get sufficient food to eat every day or lack a safe and stable place to live, please contact the Dean of Students for support (<http://studentaffairs.cofc.edu/about/salt.php>). Also, you can go to <http://studentaffairs.cofc.edu/student-food-housing-insecurity/index.php> to learn about food and housing assistance that is available to you. You can visit the Cougar Pantry in the Stern Center (2nd floor), a student-run food pantry that provides dry-goods and hygiene products at no charge to any student in need. Please also consider reaching out to Professor Bowring if you are comfortable in doing so.