

The University of Texas at El Paso
Department of Computer Science
CS 4311 – Software Engineering: Design and Implementation
Spring 2026 Syllabus

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General Information

Instructor Information:

Name:	Bhanukiran Gurijala, Ph.D.
Email:	bgurijala@utep.edu
Office Location:	CCSB 3.0604
Office Phone:	(915) 747-5827
Office Hours:	MW 3:00 – 4:00 PM Or By appointment
Dates:	January 20, 2026 – May 7, 2026

Course Information:

CS 4311:	Software Engineering: Design and Implementation	
Term:	Spring 2026	
Delivery Method	In-person	
CRN:	22497	
Meeting Day and Time:	MW 4:30 PM – 5:50 PM	
Location:	BUSN 309	
TA:	Steve Cruz	sacruz@miners.utep.edu
TA:		

Important Dates:

January 20, 2026 – First Day of Classes

February 04, 2026 – Census Day

April 02, 2026 – Drop/Withdraw Deadline (Automatic W)

May 7, 2026 – Last day of Classes

May 11, 2026 – Final Exam (4:00 PM – 6:45 PM)

Please communicate with the instructor, TA, or IA anytime you have questions, concerns, or wish to discuss anything. Reach out as often and frequently as necessary so that you may succeed.

NOTE: When emailing the instructor or TA, please use [CS 4311 SP26] in the subject and specify the CRN in the subject line or somewhere in the email.

Prerequisites:

CS 4310 with a grade of C or better. You should be in your last two semesters as an undergraduate.

Textbook:

Wirfs-Brock, R. Wilkerson, and L. Wiener, Designing Object-Oriented Software, Prentice Hall, 1990

Other Recommended Books:

Shari Lawrence Pfleeger, Joanne Atlee, Software Engineering: Theory and Practice, 4th Edition, Prentice Hall, 2009.

Objectives & Outcomes

Course Objectives:

This course will provide students with the fundamentals of the design and implementation of software systems, emphasizing the principles and methods used to develop and verify software systems. On completion of CS4311, students should be able to discuss and demonstrate approaches, techniques, or methods for creating high-level and detailed designs, hierarchical factoring of object systems, develop verification plans, be familiar with IEEE standards, and have experience in planning and implementing a large project.

Course Description:

Methodologies, approaches, and techniques associated with software design, implementation, and testing of a software system; other topics include cooperative teamwork, project management, and documentation; second semester of a two-semester capstone project in which students design and implement a real-world application specified in CS4310.

Goals

To provide computer science students with software analysis and design techniques that result in the development of maintainable and reliable software that meets the customer's needs. In practical terms, this course is meant to provide students with an approximation of a real-world experience of software development.

Course Materials

All the course materials will be available through **Blackboard**. Please check Blackboard regularly to stay updated with the class.

Topics

- Configuration management
- Software design analysis techniques
- High-level software design
- Software design specification
- Software implementation
- Software validation and verification
- Software process improvement

Learning Outcomes

Level 1: Knowledge and Comprehension:

Level 1 outcomes are those in which the student has been exposed to the terms and concepts at a basic level and can supply basic definitions. Upon successful completion of this course, students will be able to:

- a. Articulate design principles, including cohesion and coupling, encapsulation, and information hiding.

- b. Describe software design concerns related to maintenance.
- c. Describe different software architectural styles (distributed, cloud, blackboard, event systems, layered system, and pipe and filters).
- d. Relate the importance of professional societies.

Level 2: Application and Analysis:

Level 2 outcomes are those in which the student can apply the material in familiar situations, e.g., can work a problem of familiar structure with minor changes in the details. Upon successful completion of this course, students will be able to:

- a. Identify appropriate software architectural styles (specifically distributed and cloud) given a software design problem.
- b. Apply assertion-based techniques (such as pre and post-conditions) to specify behavior of program modules.
- c. Distinguish between the different levels of cohesion.
- d. Distinguish between different levels of coupling.
- e. Use software development and maintenance tools, such as software documents creation and editing tools, GUI generators, comprehension and analysis tools, supporting activities tools (configuration management tools), verification and validation tools, and security vulnerability analysis tools.
- f. Describe the difference between unit, integration, system, and acceptance testing.
- g. Apply black-box testing techniques to develop test cases for a variety of test coverages.
- h. Apply white-box testing techniques to develop test cases for a variety of test coverages.
- i. Apply static and dynamic techniques to analyze non-functional properties, including common security vulnerabilities such as password weakness, over/underflows, and race conditions.
- j. Engage in self-directed study to learn new techniques and tools for software design, implementation, and/or testing.

Level 3: Synthesis and Evaluation

Level 3 outcomes are those in which the student can apply the material in new situations. This is the highest level of mastery. Upon successful completion of this course, students will be able to:

- a. Conduct a technical review of software design, implementation, and V&V.
- b. Create and implement a software configuration management plan.
- c. Make use of appropriate architectural styles and diagramming techniques to define an architecture.
- d. Make use of appropriate textual notation and diagramming techniques to create a detailed design for a software system.
- e. Write code based on a detailed design.
- f. Develop a test plan for a software system.
- g. Demonstrate an ability to orally present a software design and implementation.
- h. Compose software design-related documents that are grammatically correct and technically sound.
- i. Apply effective techniques for collaboration and problem-solving within a team.

Policies & General Information

Teams:

We believe that the ability to work with other software developers is essential. Therefore, students will be required to work effectively in teams throughout the semester. Students will be assigned to lead teams for particular assignments. The lead is responsible for: coordinating meetings and completing the meeting records; assigning tasks and recording task assignments; collecting documentation of individual work, including rough drafts; ensuring the team meets the deadlines; organizing the team notebook; maintaining backup copies of work; and binding deliverables.

Class Attendance and Participation:

As a college student, you have the freedom to choose whether or not to attend class. However, in this course, we are committed to cooperative techniques, which can only work if students attend regularly and on-time. Part of what we are encouraging in this course is the establishment of professional behavior. Therefore, we will take attendance. **Your final grade will be lowered by one point for each unexcused absence above three.** For the purposes of this class, you will be counted as absent if you are not present when we take attendance. If you feel that you must interact with people using cell phones, PDAs, Blackberries, email, Twitter, chat, or any other electronic means, you are free to do so outside of class. If we find you doing these things in the classroom, we will ask you to leave, and to avoid disturbing the rest of your classmates, you should not return until the start of the next class.

Grading:

Final grades in this course will be determined by combining grades for two components: individual exams, homework assignments, quizzes, participation, and your contributions to the team projects. The sequence described below will be used to determine your final grade.

1. The exam average will be computed by summing 30% of midterm 1, 30% of midterm 2, and 40% of the comprehensive final.
2. The project grade will be computed by combining the grades for the Class, Responsibility, Collaboration, Hierarchy, High-level Design, Protocols, Subsystem design, Test Plan, Configuration Management Plan, Implementation, Testing Report, and Final Presentation. **Project grades may be strongly influenced by the Guidance Team's assessment of a student's contribution to his/her team.**
3. For each student whose grade has not yet been assigned, a final score will be computed by summing 45% of the exam grades, 45% of the project grade, and 10% of the class participation, homework, and quizzes.

The project grade weights 45% of the final SE II grade. Here is the breakdown of how the project grade is being calculated.

	Deliverables	Weights
1.	Software Configuration Management Plan	10%
2.	Client Demos	10%
3.	CRC	10%
4.	Subsystems/Protocols	5%
5.	SDD	20%
6.	Implementation and Integration	20%
7.	Test Plan	10%
8.	Final Presentation	15%
	Total:	100%

The nominal percentage-score-to-letter-grade conversion is as follows:

- 90% or higher is an A
- 80-89% is a B
- 70-79% is a C
- 60-69% is a D
- below 60% is an F

The instructor reserves the right to adjust these criteria downward, e.g., so that 88% or higher represents an A, based on overall class performance. The criteria will not be adjusted upward, however.

Grading Errors:

We are only humans. We can and will make mistakes. You have one week after the graded material is returned to the class to rectify any grading errors or to argue for additional credit. After the week has passed, no changes in grades will be made.

Exams:

Examinations are assumed to be closed-book, closed notes, in-class, unless otherwise specified. Make-up examinations are not given. **If you have to miss an examination for a legitimate reason (such as illness, death in the family, participation in a college-sponsored activity), then arrangements, prior to the exam, may be made with the course instructor. If you miss an examination without a legitimate reason, a grade of 0 will be recorded for that examination.** If you know you will be missing an exam date due to a college-sponsored activity, you may arrange to take the exam in advance.

There will be two (2) exams and one (1) final exam. Exams may be posted and submitted through Blackboard with appropriate due dates listed. The purpose of the exams is to allow you to demonstrate mastery of course concepts. Make-up exams will be given only in extremely unusual circumstances, and at the discretion of the instructor.

The purpose of the midterm exams is to allow you to demonstrate mastery of course concepts covered thus far during the semester. Mid-term exams will take place during the regular lecture session. You will receive an announcement (i.e., in-class, email, Blackboard, etc.) at least one

week prior to an exam. Make-up exams will be given only in extremely unusual circumstances. If you must miss an exam, please meet with the instructor, BEFORE the exam. Unless for extreme circumstances and at the discretion of the instructor, students who miss an exam will not be able to make-up the exam.

The final exam will be comprehensive. You must take the final exam during the time shown in the schedule for the lecture section that you normally attend. If you have a scheduling conflict (e.g., if you are taking a final at EPCC) or if you are scheduled for three final exams in one day, see your instructor in advance for accommodations.

Exams may make use of test proctoring software such as Respondus Lockdown Browser and Respondus Monitor inside of Blackboard to promote academic integrity. You are encouraged to learn more about how to use these programs prior to the first exam. You may be required to provide a photo ID (i.e., Miner Gold card, Drivers License, etc.) for your exam. You may also be required to have an assigned seat during the exam. Students should avoid leaving the classroom during exams – you may be requested to submit your exam prior to leaving.

Course Communication:

Here are the ways we can keep the communication channels open:

- Office Hours: I will have office hours for your questions and comments about the course. My office hours are in-person; however, you can request a virtual meeting and I will send you a Teams/Zoom link. Please see the days and times at the top of this syllabus. You can reach out to anyone on the instructional team for questions and comments.
- Email: UTEP e-mail is the best way to contact me. I will make every attempt to respond to your e-mail within 24 hours of receipt. Please note that responses may be delayed for e-mails sent during the weekend and holidays. When emailing me, be sure to email from your UTEP e-mail account, and please put the course number in the subject line. In the body of your e-mail, clearly state your question. At the end of your e-mail, be sure to put your first and last name and your university identification number.
- Announcements: Announcements will be made in class, and most of them will be posted on Blackboard as well. In case a student misses a class, the student is responsible for obtaining any missed announcements. Check the Blackboard announcements frequently for any updates, deadlines, or other important messages.

Incomplete Grade Policy:

Incomplete grades may be requested only in exceptional circumstances after you have completed at least half of the course requirements. Talk to me immediately if you believe an incomplete is warranted. If granted, we will establish a contract of work to be completed with deadlines.

Excused Absences and/or Drop Policy:

I will not drop you from the course. However, if you feel that you are unable to complete the course successfully, please let me know and then contact the [Registrar's Office](#) to initiate the drop process. If you do not, you are at risk of receiving an "F" for the course.

Accommodations Policy:

The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of

University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Students who become pregnant may also request reasonable accommodations, in accordance with state and federal laws and regulations and University policy. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the UTEP Center for Accommodations and Support Services (CASS). Contact the Center for Accommodations and Support Services at 915-747-5148, email them at cass@utep.edu, or apply for accommodations online via the CASS portal. Students are required to discuss their accommodations with the instructor for a proper plan to be made.

General Policies:

Time: This course is time-intensive. You must start assignments early and work steadily to be successful.

Let us make one more point here: we are available to assist you in solving problems, **not to think or do** work for you. Office meetings are for helping you by clarifying material and assisting you with problems you are encountering. It is not for repeating things you missed when you skipped class. You should come to office appointments prepared. The harder you work at it, the harder we will work to help you.

Technology Requirements:

Some course content is delivered via the Internet through the Blackboard learning management system (LMS), supplemented by Microsoft Teams, Zoom, or the like. Ensure your UTEP MINERS account is working and that you have access to the Internet. You may use any of the primary Web browsers—Edge, Google Chrome, Firefox, Safari, etc. When having technical difficulties, try switching to another browser.

You will need to have access to a computer/laptop. You will need to download or update the following software: Microsoft Office, Adobe Acrobat Reader, Windows Media Player, QuickTime, and Java. Check that your computer hardware and software are up-to-date and able to access all parts of the course.

If you do not have word-processing software, you can download Word and other Microsoft Office programs (including Excel, PowerPoint, Outlook and more) for free via UTEP's Microsoft Office Portal. Click the following link for more information about [Microsoft Office 365](#) and follow the instructions.

IMPORTANT: If you encounter technical difficulties beyond your scope of troubleshooting, please contact the UTEP [Help Desk](#), as they are trained specifically in assisting with the technological needs of students. Please do not contact me for this type of assistance. The Help Desk is much better equipped than I am to assist you!

You are not authorized to use any online services that are not licensed by UTEP, including, but not limited to Discord, Twitch, WhatsApp, or GroupMe. You should not use these services for

communication, collaboration, or the like in any way with respect to this course. You are only permitted to use Microsoft Teams, Microsoft Office (Licensed through your Miners account), and Blackboard.

Students are permitted to use iPad/Tablets to handwrite notes. Students are not permitted to use their iPad/Tablet to browse the internet or use any other applications that are not related to the course. Students who use unauthorized applications during class time will be no longer be permitted to use the iPad/Tablet for note taking. Students should take notes by hand and not by typing. Students should avoid the use of laptops or cell phones during class unless indicated by the instructor.

Course Resources

Technology Resources:

- [Help Desk](#): Students experiencing technological challenges (email, Blackboard, software, etc.) can submit a ticket to the UTEP Helpdesk for assistance. Contact the Helpdesk via phone, email, chat, website, or in person if on campus.

Academic Resources:

- [UTEP Library](#): Access a wide range of resources including online, full-text access to thousands of journals and eBooks plus reference service and librarian assistance for enrolled students.
- [University Writing Center \(UWC\)](#): Submit papers here for assistance with writing style and formatting, ask a tutor for help and explore other writing resources.
- [Math Tutoring Center \(MaRCS\)](#): Ask a tutor for help and explore other available math resources.
- [History Tutoring Center \(HTC\)](#): Receive assistance with writing history papers, get help from a tutor and explore other history resources.
- [RefWorks](#): A bibliographic citation tool; check out the RefWorks tutorial and Fact Sheet and Quick-Start Guide.
- [The Miner Learning Center](#): Join peer-led study sessions in person or online to review content and discover study strategies in core curriculum courses.
- [UTEP Edge](#): UTEP's cross-campus framework for student success and empowerment – develops students' assets through high-impact experiences made possible by the expertise and dedication of faculty, staff, alumni, and community partners.

Individual Resources:

- [Student Success Help Desk \(SSHD\)](#): Students experiencing challenges or obstacles to academic success including registration, financial, food, housing, and transposition resources may submit a ticket request assistance to studentsuccess@utep.edu
- [Military Student Success Center](#): Assists personnel in any branch of service to reach their educational goals.
- [Center for Accommodations and Support Services](#): Assists students with ADA-related accommodations for coursework, housing, and internships.
- [Counseling and Psychological Services](#): Provides a variety of counseling services including individual, couples, and group sessions as well as career and disability assessments.

- [UTEP Food Pantry](#): Non-perishable food items are available to students who are currently enrolled in classes. Bring a Miner Gold Card to Memorial Gym, Room 105, Monday through Friday, 10 a.m. to 2 p.m.

Standards of Conduct, Academic Dishonesty, and Other Information

Scholastic Integrity:

Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as one's own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the [Office of Student Conduct and Conflict Resolution \(OSCCR\)](#) for possible disciplinary action. To learn more, please visit [HOOP: Student Conduct and Discipline](#).

Copyright Statement for Course Materials:

All materials used in this course are protected by copyright law. The course materials are only for the use of students currently enrolled in this course and only for the purpose of this course. It is not permitted to share, reproduce, or alter any assignment for any purpose. Students are not permitted from sharing code, uploading assignments online in any form, or viewing/receiving/modifying code written from anyone else. Assignments are part of an academic course at The University of Texas at El Paso and a grade will be assigned for the work produced individually by the student.

Class Recordings:

Course lectures may be recorded by the instructor/department. Students are not permitted to record the course (i.e., video, audio, etc.) without expressed permission from the instructor.

The use of recordings will enable you to have access to class lectures, group discussions, and so on in the event you miss a synchronous or in-person class meeting due to illness or other extenuating circumstance. Our use of such technology is governed by the Federal Educational Rights and Privacy Act (FERPA) and UTEP's acceptable-use policy. A recording of class sessions will be kept and stored by UTEP, in accordance with FERPA and UTEP policies. Your instructor will not share the recordings of your class activities outside of course participants, which include your fellow students, teaching assistants, or graduate assistants, and any guest faculty or community-based learning partners with whom we may engage during a class session. **You may not share recordings outside of this course.** Doing so may result in disciplinary action.

Illness Precautions:

Please stay at home if you have symptoms of a communicable illness. If you are feeling unwell, please let me and the instructional team as soon as possible, so that we can work on appropriate accommodation.

Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let the instructor know as soon as possible, so that appropriate accommodations can be made. If you have tested positive for COVID-19, you are encouraged to report your results to covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID 19 testing.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area. For more information about the current rates, testing, and vaccinations, please visit epstrong.org.

Netiquette:

Always consider audience. Remember that members of the class and the instructor will be reading any postings. Respect and courtesy must be always provided to classmates and to instructor. No harassment or inappropriate postings will be tolerated. When reacting to someone else's message, address the ideas, not the person. Post only what anyone would comfortably state in a F2F situation. Blackboard is not a public internet venue; all postings to it should be considered private and confidential. Whatever is posted on in these online spaces is intended for classmates and professor only. Please do not copy documents and paste them to a publicly accessible website, blog, or other space. If students wish to do so, they have the ethical obligation to first request the permission of the writer(s).

Plagiarism Detection:

All coursework and assignments are subject to be submitted to plagiarism detection software including, but not limited to SafeAssign. SafeAssign is used review assignment submissions for originality and will help you learn how to properly attribute sources rather than paraphrase.

Guidance on Artificial Intelligence:

AI prohibited

Use of AI technologies or automated tools, particularly generative AI such as [ChatGPT](#) or [DALL-E](#), is **not allowed** for assignments in this class. Each student is expected to use critical and creative thinking skills to complete tasks and not rely on computer-generated ideas. Any direct use of AI-generated materials submitted as your own work will be treated as plagiarism and reported to the Office of Student Conduct and Conflict Resolution (OSCCR).

AI is allowed only with prior permission from the instructor

Use of AI technologies or automated tools, particularly generative AI such as [ChatGPT](#) or [DALL-E](#), is **only allowed with approval from the instructor BEFORE being used**. Without permission, you will be expected to think creatively and critically to complete assignments without assistance from these tools.

If given permission to use any of these tools, students must properly cite and give full credit to the program used upon submission of every relevant assignment. For example, text generated using ChatGPT must be cited:

Chat-GPT(version). Date of query (year/month/day). “Text of your query.”
Generated using OpenAI. <https://chat.openai.com/>

A short paragraph describing how the tool(s) was/were used for the assignment must be included.

AI allowed with proper acknowledgement

Use of AI technologies or automated tools, particularly generative AI such as [ChatGPT](#) or [DALL-E](#), is *only allowed with proper attribution given for its use*.

Students must properly cite and give full credit to the program used upon submission of every relevant assignment. For example, text generated using ChatGPT must be cited:

Chat-GPT(version). Date of query (year/month/day). “Text of your query.”
Generated using OpenAI. <https://chat.openai.com/>

A short paragraph describing how the tool(s) was/were used for the assignment must be included.

Using AI for brainstorming

Some AI technologies or automated tools, particularly generative AI such as [ChatGPT](#) or [DALL-E](#), can be beneficial during the early brainstorming stages of an activity, and you are welcome to explore them for that purpose. However, keep in mind that AI-generated ideas are not your own and may hinder your ability to think critically and creatively about a problem. It is also important to remember that these technologies often “hallucinate” or produce materials and information that are inaccurate or incomplete, even providing false citations for use.

That said, you are not allowed to submit any AI-generated work in this course as your own. If you use any information or materials created by AI technology, you are required to cite it like you would any other source. Consider how this will affect your credibility as a writer and scholar before doing so. Any direct use of AI-generated materials submitted as your own work will be treated as plagiarism and reported to the Office of Student Conduct and Conflict Resolution (OSCCR).

Free use of AI without acknowledgement

Use of AI technologies or automated tools, including generative AI such as [ChatGPT](#) or [DALL-E](#), is permitted in this class. Students must include a short paragraph, with each relevant assignment, explaining how the tool was used.

The use of generative AI tools such as ChatGPT is permitted in this course for the following activities, which must be noted or cited:

- Reinforce understanding of concepts discussed in the course.

However, you may not use AI tools to complete any of the assessment items used to compute the grade for the course.

If the use of any AI tools is allowed for implementation, testing, and/or other activities of the project, then the instructional team and customer team will provide a list of tools that can be used and instructions on how those can be used to accomplish certain tasks. It is permitted to use only those tools listed to accomplish specific tasks. It may be required to cite the use of those tools accordingly. More instructions and information on this will be provided during the semester.

Students must cite any borrowed content sources to comply with all applicable citation guidelines, copyright law, and avoid plagiarism. Instances that violate these guidelines will be referred to the Office of Student Conduct and Conflict Resolution.

Standards of Conduct:

You are expected to conduct yourself in a professional and courteous manner, as prescribed by the UTEP Standards of Conduct.

A fundamental principle for any educational institution, academic integrity is highly valued and seriously regarded at The University of Texas at El Paso. More specifically, students are expected to maintain absolute integrity and a high standard of individual honor in scholastic work undertaken at the University. At a minimum, you should complete any assignments, exams, and other scholastic endeavors with the utmost honesty, which requires you to:

- Acknowledge the contributions of other sources to your scholastic efforts.
- Complete your assignments independently unless expressly authorized to seek or obtain assistance in preparing them.
- Follow instructions for assignments and exams, and observe the standards of your academic discipline; and
- Avoid engaging in any form of academic dishonesty on behalf of yourself or another student.

Graded work, e.g., homework and tests, is to be completed independently and should be unmistakably your own work (or, in the case of group work, your team's work), although you may discuss your project with other students in a general way. You may not represent as your own work material that is transcribed or copied from another person, book, or any other source, e.g., a web page.

Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable to another person.

- **Cheating**
 - Copying from the test paper of another student
 - Communicating with another student during a test
 - Giving or seeking aid from another student during a test
 - Possession and/or use of unauthorized materials during tests without authorization (i.e., Crib notes, class notes, books, etc.)
 - Substituting for another person to take a test.

- Falsifying research data, reports, academic work offered for credit.
- **Plagiarism**
 - Using someone's work in your assignments without the proper citations.
 - Submitting the same paper or assignment from a different course, without direct permission of instructors
- **Collusion**
 - Unauthorized collaboration with another person in preparing academic assignments.

Collaboration:

Collaboration among students is strongly encouraged.

It is acceptable to:

- Talk with other students about approaches and ideas.
- Get ideas and extra information from the internet, books, etc.

However, it is not acceptable to:

- Share code with another student (if a piece of code is submitted by two or more students, both students are guilty of cheating, regardless of who wrote the original code).
- Use code acquired from an outside source (the internet, a friend, etc.)
- Look at another student's code
- Debug another student's code

Software to detect plagiarized programs is used; appropriate disciplinary actions will be taken as necessary. A full description of the University Standards of Conduct and Academic Dishonesty can be found in the Handbook of Operating Procedures. Professors are required to -- and will -- report academic dishonesty and any other violation of the Standards of Conduct to the Dean of Students and OSCCR.