PURDUE UNIVERSITY | Elmore Family School of Electrical and Computer Engineering

Engineering Faculty Document No. EFD 49-22
February 2, 2022

Memorandum

To: The College of Engineering Faculty

From: The Elmore Family School of Electrical and Computer Engineering

Re: Course modifications to ECE 36400 Software Engineering Tools

The faculty of the Elmore Family School of Electrical and Computer Engineering has approved the changes to the following undergraduate course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

FROM:

ECE 36400 Software Engineering Tools Laboratory, Sem. 1, 2, Class 1, Lab 2, Cr. 1.
Prerequisites: ECE 26400

To acquaint the students with a variety of current software engineering tools, scripting languages, and application programming languages. Students are expected to use their previous programming experience to design and test software programs using the techniques learned in this course.

Learning Outcomes: i) an ability to use scripting languages to integrate the input/output of diverse software systems. [1,2,6]; ii) an ability to apply testing techniques to assess software reliability and correctness. [1,2,6]; iii) an ability to design modern user interfaces. [1,2,6]; iv) an understanding of regular expressions. [1,2,6]; v) an ability to design and incorporate classes in their programs. [1,2,6]; vi) an ability to incorporate associative arrays in their programs. [1,2,6]

TO:

ECE 30864 Software Engineering Tools, Sem. 1, Class 1, Lab 2, Cr. 1.
Prerequisites: ECE 26400 with a minimum grade of C

This course will acquaint students with the toolkit of the modern software engineer. Students will learn the tools surrounding the software application itself, e.g. tools for software process, software construction, and software deployment. Examples include: integrated development editors (IDEs), version control systems, project management, bug tracking, scripting languages, testing aids, deployment technologies.

ELMORE FAMILY SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING
Materials Sciences and Electrical Engineering Building, Room 140
501 Northwestern Avenue, West Lafayette, IN 47907
Office: 765-494-3390

Learning Outcomes: i) an ability to use orchestration languages to manipulate diverse software systems. [1,2,6]; ii) an understanding of testing tools to assess software reliability and correctness. [1,2,6]; iii) an ability to use software management tools. [3,5]; iv) an awareness of software deployment technologies and tradeoffs. [2]

Reason: ECE 36400 previously ran for many years as a course that just introduced students to Python and a few scripting languages, but was replace a few years ago with ECE 20875 Python for Data Science as a required BSEE and BSCmpE core course. ECE 36400 has been reformulated by ECE faculty to focus more on actual software engineering tools including frameworks, better prepare students for more advanced software engineering courses, and updated learning outcomes to give it a distinct purpose in the curriculum. Exposure to a large variety of tools will also provide students better preparation for internship opportunities in this field.

Milind Kulkarni
Associate Head of Teaching and Learning
Professor of Electrical and Computer Engineering

ECE 39595: Software Engineering Tools Lab

Spring 2022 (Updated with latest Covid-19 Policies)

Instructor:	Joseph D Thomas	thoma900@purdue.edu	Check Piazza for Office Hours
Lead TA:	V.K. Chaithanya Manam	vmanam@purdue.edu	Check Piazza for Office Hours
Lab Admin:	Dr. Mark Johnson	mcjohnso@purdue.edu	Check Piazza for Office Hours
	Dr. James Davis	davisjam@purdue.edu	Check Piazza for Office Hours
UTAs:	Justin Brett Helfman	jhelfman@purdue.edu	Check Piazza for Office Hours
	Kristopher Kunovski	kkunovsk@purdue.edu	Check Piazza for Office Hours
	Vrajrajsinhji Nikhil	parmarv@purdue.edu	Check Piazza for Office Hours

Questions about course content, policies, scheduling must be sent via Piazza.
Messages marked private will be visible only to course staff.
Use email only for especially private matters.

Meetings Times

Section 003	**CRN 28574**	**Lecture**	**Mon 03:30 PM - 04:20 PM**	**BHEE 005**
Section 002	CRN 32026	Lab	Wed 11:30 AM - 01:20 PM	BHEE 207
Section 004	CRN 32027	Lab	Wed 02:30 PM - 04:20 PM	BHEE 207

Prerequisite

ECE 26400

Resources

Piazza: https://piazza.com/purdue/spring2022/ece39595/home ⇐ Questions, notes, assignments, documents
Home page: http://engineering.purdue.edu/ee364 ⇐ Schedule
Brightspace: https://purdue.brightspace.com/ ⇐ Grades

Course Description

This course will acquaint students with the toolkit of the modern software engineer. Students will learn the tools surrounding the software application itself, e.g. tools for software process, software construction, and software deployment. Examples include: integrated development editors (IDEs), version control systems, project management, bug tracking, scripting languages, testing aids, deployment technologies.

Reference

Python Web Documentation:	https://docs.python.org/3/
Web Development Resources:	https://www.w3schools.com/ https://developer.mozilla.org/en-US/
GIT Version Control:	https://git-scm.com/doc
IDE Documentation:	https://code.visualstudio.com/

GCP: https://cloud.google.com/docs

Access to sites like Stack Overflow and Github will not be allowed for the Lab sessions.

Course Texts (Optional):

"Beginning Python, From Novice to Professional," Magnus Lie Hetland, Apress, 3rd Edition, 2017, ISBN 978-1-4842-
"Offical Google Cloud Certified Associate Cloud Engineer Study Guide"
"The DevOps Handbook: How to Create World-Class Agility, Reliability, and Security in Technology Organizations"

Contents

Topics

- Role of Tools in IDEs - VSCode
- Distributed Software Development – Git
- Project Management Tools – JIRA
- The UNIX Programming Environment
- Shell Scripting – Bash, Python, Javascript/Node.js
- Software Testing
- Software Deployment and Monitoring – IaaS, PaaS, FaaS

Outline

- Tools, IDEs
- Code and Project Management – Git, JIRA
- Scripting Languages

- Software Testing, Deployment

Course Objectives

This course is designed to help you achieve the following course objectives:

CO1 Student has successfully demonstrated the ability to use orchestration languages to manipulate diverse software systems.
CO2 Student has successfully demonstrated an understanding of testing tools to assess software reliability and correctness.
CO3 Student has successfully demonstrated an ability to use software management tools.
CO4 Student has successfully demonstrated an awareness of software deployment technologies and tradeoffs.

Grading

Grades will be based on the following weights and scale.

#	Description	Percent
12	Labs, 6% each	72%
1	Practical Exam	20%
	Course Objectives Completion	5%
	Participation	3%
	Total	100%

Course Grade	Letter Grade
97 – 100%	A+
89 – 96.9%	A
87 – 88.9%	A-
85 – 86.9%	B+
80 – 84.9%	B
78 – 79.9%	B-
76 – 77.9%	C+
72 – 75.9%	C
69 – 71.9%	C-
60 – 68.9%	D
< 60%	F

Course Objectives Completion

Each lab/exam covers one or more course objectives. To pass these COs, you need to obtain a combined score (i.e. prelab + lab) of 60% or more. You will be given multiple opportunities throughout the semester to pass all objectives. You need to pass each objective only once. If you fail to pass any course objective by the end of the semester, you will not be awarded the CO Completion points.

Participation

The participation grade can be earned through the following:

- Piazza Posts: At the discretion of the course staff, students with the highest involvement in answering their colleagues' questions on Piazza will be awarded participation points.
- Code Quality Review: In order to improve your code quality, students will get a chance to request an appointment for a code quality review, for a specific lab/prelab (but not an exam,) with the instructor, or one of the Reviewer TAs. Each student is expected to undergo at least two code reviews. The reviewer will:

- assess how much the code conforms to the published code quality guide,
- discuss the code quality of the chosen file with the student, and
- give recommendations on how to improve on any weak points.

Each review process will take around 20 min, and the student can request the code quality review more than once. Each review will count towards participation. Note that the instructor and the reviewers will have a limited number of time slots for code reviews. Hence:

- the reviewers reserve the right to refuse to do the review due to scheduling issues, or any other reason.
- Each student cannot take more than one review on any given day.

Base lab requirements

The following requirements apply to all exercises (where applicable,) and are in addition to the requirements given in the assignment description. Any submission not meeting any of these requirements will receive **zero credit**.

- Code runs as is on ecegrid with **Python 3.9.X**, **bash 4.1.2**, and other default software versions for lab accounts.
- Code must not depend on user input, files, or directories, except as specified in the assignment description.
- Function signatures and data types precisely match the specification given in the assignment (where applicable).
- Required files must be named exactly as specified in the assignment and included in a single submission.
- Code finishes in a reasonable amount of time.
- Approach follows the intent of the exercise. (Just be reasonable. This rarely comes up. If unsure, you can ask.)
- Code follows our policy on academic integrity.

Code written for Python 2.X will most likely result in syntax errors under Python 3.X, resulting in zero credit.

The use of any unauthorized website during any regular lab will result in a zero credit for both the lab exercise as well as the prelab assignment of that lab.

Regrade requests

If you believe your score is incorrect due to a flaw in our scoring process, and you are sure your submission meets the base requirements (above), we will be happy to review it. Please attend one of the office hours designated for regrade requests.

Please do NOT contact the staff by email, nor via Piazza, for regrade requests, as we will not be able to track those requests.

Lab Accounts

You will be assigned a special account to use in this lab. It is separate from your Purdue Career Account and is strictly for your lab work. Course staff may access the content of any 364 account at the discretion of the instructor or lab director. **(Reminder: We will never grade any code that was not submitted through GIT.)**

Prelab Assignments

- Prelab submissions are subject to the Base Requirements (p. 3). You must read and follow them.
- Prelabs are due at 11:59 PM on the published due dates, regardless of what lab section you belong to.
- Each assignment is worth 80% of your lab grade, and the lab exercise is worth 20%.

Lab exercises

Procedures

- The lab exercise document will be distributed at the beginning of each lab section and will be collected at the end of the lab period. Failure to give your lab document back may result in a grade penalty.
- The lab session is timed. You must log out within 1 hour 50 minutes from the start time of your session.
- Try to arrive a few minutes early to ensure that you have time to log in and obtain the document.
- To ensure fairness among lab sections, TAs/UTAs are not permitted to give extra time.
- You are allowed to access the internet during your lab session, except the sites – Stack Overflow and Github. **(Accessing these websites will result in a zero credit for both the lab exercise as well as the prelab assignment of that lab.)**
- If you access the above sites by mistake, please contact the TA proctoring the lab.
- Each Web URL accessed during the lab must be included as a citation in your code as a comment. **Failure to cite all URLs in your history may result in grade penalty. Citations should follow the format:**

```
# Credit: <author>, <description>, <url_or_location>
```

- You are allowed to access your own previous scripts from the current semester.
- We can only grade the scripts in GIT. Failure to submit your scripts into GIT **on time** will result in a penalty or possibly a grade of 0.
- Always log out of your lab account before you leave and/or if you will be away from your terminal.
- **We can only grade your script if it compiles. If your script does not compile, you will get a grade of 0.**
- Lab submissions are subject to the Base Requirements (p. 3). You must read and follow them.

If you cannot attend a lab, see page 8 of this syllabus for conditions and instructions regarding make-up labs.

Practical exam

There will be one practical exam. The content of exams may include anything covered in labs or lectures prior to the exam.

Do not bring any material or electronic devices to any exam. Exams are closed-book.

You will be allowed to use the following:

1. Your own lab scripts from the current semester.
2. The Python/Bash/JS Documentation
3. Cloud Documentation
4. VSCode/GIT Documentation

Exam procedures

Bring photo ID to every exam. We reserve the right to check IDs and reject exams from any student who cannot prove their identity at the time the exam is submitted.

Photographs or video recordings may be taken by course staff to document who was present.

Use the restroom before you enter the exam room. Bathroom breaks are **not** allowed.

The following items must be left ≥5 feet (1½ meters) away from you or any other student: bags, backpacks, purses, phone, laptop, smart watch, calculator, digital watch, any other student's exam.

Cell phones must be turned off or placed in silent mode—not vibrate—and left in your bag ≥5 feet (1½ meters) from you or any student, or else left at home.

Using or looking at any electronic device or unauthorized resource during an exam may result in immediate ejection from the exam, even if there is no evidence that you were using it to cheat. This is because we cannot accurately determine what was on the device (or another item).

Attempting to cheat and/or helping any other student(s) cheat will be treated the same as cheating.

Code submitted for practical exams is subject to the Base Requirements (p. 3). You must read and follow them.

Read the full policy on academic integrity (p. 9) carefully.

If you cannot attend an exam, see page 8 of this syllabus for conditions and instructions regarding make-up exams.

Academic Guidance in the Event a Student is Quarantined/Isolated

In light of the current Covid-19 pandemic, in the event that a student is quarantined/isolated, we will ensure maximum support to the student to complete the course. If the student is physically able to complete the coursework, we would still have them complete the lab session remotely. In the event that the student is physically unable to complete the coursework, we would work with the course staff and the department to decide the next course of action on a case by case basis.

The Office of the Dean of Students (ODOS) can provide a general absence letter confirming when a student cannot attend class. Note that an absence does not necessarily indicate that a student has tested positive for COVID. The student will have access to an Academic Case Manager (ACM) in order to provide academic support during this time. Their ACM will provide the students with some general guidelines/resources around communicating with the instructors, be available for academic support, and offer general suggestions for how to be successful when learning remotely. ACMs can be reached at acmq@purdue.edu

Attendance Policy during COVID-19

Students should stay home and contact the Protect Purdue Health Center (496-INFO) if they feel ill, have any symptoms associated with COVID-19, or suspect they have been exposed to the virus. In the current context of COVID-19, in-person attendance will not be a factor in the final grades, but the student still needs to inform the instructor of any conflict that can be anticipated and will affect the submission of an assignment or the ability to take an exam. Only the instructor can excuse a student from a course requirement or responsibility. When conflicts can be anticipated, such as for many University-sponsored activities and religious observations, the student should inform the instructor of the situation as far in advance as possible. For unanticipated or emergency conflict, when advance notification to an instructor is not possible, the student should contact the instructor as soon as possible by email, through Brightspace, or by phone. When the student is unable to make direct contact with the instructor and is unable to leave word with the instructor's department because of circumstances beyond the student's control, and in cases of bereavement, quarantine, or isolation, the student or the student's representative should contact the Office of the Dean of Students via email or phone at 765-494-1747. Our course Brightspace includes a link on Attendance and Grief Absence policies under the University Policies menu.

Classroom Guidance Regarding Protect Purdue

The Protect Purdue Plan, which includes the Protect Purdue Pledge, is campus policy and as such all members of the Purdue community must comply with the required health and safety guidelines. Required behaviors in this class include: staying home and contacting the Protect Purdue Health Center (496-INFO) if you feel ill or know you have been exposed to the virus, properly wearing a mask in classrooms and campus building, at all times (e.g., mask covers nose and mouth, no eating/drinking in the classroom), disinfecting desk/workspace prior to and after use, maintaining appropriate social distancing with peers and instructors (including when entering/exiting classrooms), refraining from moving furniture, avoiding shared use of personal items, maintaining robust hygiene (e.g., handwashing, disposal of tissues) prior to, during and after class, and following all safety directions from the instructor.

Students who are not engaging in these behaviors (e.g., wearing a mask) will be offered the opportunity to comply. If non-compliance continues, possible results include instructors asking the student to leave class and instructors dismissing the whole class. Students who do not comply with the required health behaviors are violating the University Code of Conduct and will be reported to the Dean of Students Office with sanctions ranging from educational requirements to dismissal from the university.

Any student who has substantial reason to believe that another person in a campus room (e.g., classroom) is threatening the safety of others by not complying (e.g., not wearing a mask) may leave the room without consequence. The student is encouraged to report the behavior to and discuss next steps with their instructor. Students also have the option of reporting the behavior to the Office of the Student Rights and Responsibilities. See also Purdue University Bill of Student Rights.

Disabilities

Purdue University is required to respond to the needs of the students with disabilities as outlined in both the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 through the provision of auxiliary aids and services that allow a student with a disability to fully access and participate in the programs, services, and activities at Purdue University.

If you have a disability that requires special academic accommodation, please make an appointment to speak with us during the first week of the semester in order to discuss any adjustments. It is important that we talk about this at the beginning of the semester. It is the student's responsibility to notify the Disability Resource Center, by email: drc@purdue.edu or by phone: 765-494-1247, of an impairment/condition that may require accommodations and/or classroom modifications.

Campus emergencies

In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor's control. If a campus shutdown is announced by Purdue University officials, an ECE 39595 course announcement will

be posted in the Brightspace ECE 39595 discussion groups and a Brightspace email message will be emailed to the entire class with instructions. You may also reach course staff at the phone numbers and email addresses listed at the top of this document.

See the University's website for more on emergency preparedness:
http://www.purdue.edu/ehps/emergency_preparedness/

Attendance

The students are expected to complete all labs. If you feel sick, when conflicts or absences can be anticipated, such as for many University sponsored activities and religious observations, the student should inform the instructor of the situation as far in advance as possible. For unanticipated or emergency absences when advance notification to an instructor is not possible, the student should contact the instructor as soon as possible by email, or by contacting the main office that offers the course. When the student is unable to make direct contact with the instructor and is unable to leave word with the instructor's department because of circumstances beyond the student's control, and in cases of bereavement, the student or the student's representative should contact the Office of the Dean of Students.

Influenza and other illness

If you are experiencing symptoms of influenza or other illness, **please do not come to class, lab, or office hours.**

Notify the instructor *and* your TA as soon as possible via email or telephone. We will work with you to determine a schedule for completion of your work.

A doctor's note will be required in most cases. Contact the instructor and the lab director if obtaining such a note would be impossible or inappropriate due to your circumstances.

Lab makeups

If you miss a lab, you must contact the TA and schedule a makeup to take that lab. The general policy is:

- Lab makeups must be completed **no later** than exactly **one week** after the session you missed.
- Makeups can be done during office hours or during another lab section, with prior approval from the TA(s).
- You are permitted one "free" makeup of any regular lab exercise (i.e., *not* exam, quizzes, or the project).
- Subsequent makeups will require a valid excuse (a doctor's note for illness and instructor approval or instructor approval for other extenuating circumstances).
- If you are taking a planned trip (for an interview, course-related event, or anything else) you must notify the course staff **at least 48 hours prior** to your absence for approval.
- In other cases, you must provide a doctor's note to the course staff. Please do not come to lab ill!
- If you fail to notify us within seven calendar days of the deadline affected by your illness you will forfeit the right to the make up the missed work. (Exceptions to this rule may be made in extreme cases.)

This semester is exceptional and we will work hard to accommodate unusual circumstances.

Exam makeups

If you are unable to attend an exam, you must contact the instructor and the lab director at least 2 weeks prior to the exam (unless specific circumstances make that impossible). Makeup exams will be provided in case of serious or infectious illness or documented grief absences. At the discretion of the lab director, we may also accommodate immovable Purdue-sponsored activities, immovable job interviews, child or elder care emergencies, or other

conflicts beyond your control that would cause harm if not heeded. Documentation will be required, where appropriate.

Academic integrity

Motivation

The vast majority of students at Purdue do their work honestly and with integrity. The value of their grades and their ultimate degree is based on the expectation that earning a good grade always requires learning the material well and demonstrating that in a way that can be measured (e.g., exams and assignments). Those who cheat are eroding that value, the reputation of Purdue, and ultimately the value of your diploma.

Cheating is unfair to those who do their work honestly, and even to the few who do not. It defeats the purpose of being a student at Purdue and our dual purpose as instructors in this course: (1) to teach you skills that will contribute to your proficiency as engineer, and (2) to ensure that good grades in Purdue ECE courses remain a dependable indicator of ability. If students are able to cheat, we have failed at both of those goals. For all of these reasons, we have a very strict stance against cheating.

Definitions

For purposes of defining cheating for this course, the following definitions apply:

"Copying" means reproducing any kind of data (including code, text, etc.) by any means (including copy-paste, copying files, hand-typing, etc.) from one source to another.

"Trivial modifications" – include differences in whitespace, variable names, function order, or other changes that affect the appearance but not the function or intellectual content of the material.

"Attribution" means explicitly acknowledging the source of copied content with a comment in exactly this format:
`# Credit: <author>, <description>, <url_or_location> .`

"Authorized sources" include:
- ✓ code that you have written yourself
- ✓ starter code provided with the exercise instructions for *this* semester
- ✓ names of standard library functions (e.g., `re.match(...)`) and keywords (e.g., `def`)
- ✓ websites with proper citations included as a comment in code
- ✓ any other source explicitly allowed by the instructor (with attribution).

"Unauthorized sources" include any of the following (unless explicitly allowed):
- ✗ code from StackOverflow or Github
- ✗ code from the textbook or any other book
- ✗ test cases given in assignment descriptions
- ✗ any other source that is not an authorized source

"Unauthorized aid" means any resource that provides information or functionality relevant to a quiz or exam that was not explicitly allowed by the instructor. Unauthorized aids include:
- ✗ hidden note sheets (on a closed-book exam or quiz)
- ✗ other students' papers
- ✗ calculator
- ✗ watch

✗ any other resource not explicitly allowed

"Cheating" includes doing—or attempting to do—any of the following:

✗ Copying any amount of code from another students' code, websites like Stack Overflow or Github, a book, or any other unauthorized source, even if you change the variable names or rearrange expressions or lines of code. You may use code from the course reference sheet or code that you wrote yourself.
✗ Allowing another student to copy your code.
✗ Using any resource on any quiz or exam that is not explicitly allowed.
✗ Using unauthorized means to access exam contents.
✗ Using unauthorized means to alter or affect grades, submission timestamps, or submission contents, or anything else that might affect grades.
✗ Supporting any other student's attempts to cheat (as defined above) through direct assistance or negligence.

Be careful not to reveal your code to others inadvertently. It is your responsibility to log out when you leave and guard any printed copies of your work. If we discover two assignment submissions that are identical or very similar, both may be penalized.

Gray areas

✓ Sharing abstract ideas about homework assignments—without code—is allowed, though we expect you to use good judgment. For example, standing together at a whiteboard and discussing a problem with spoken words and diagrams is allowed. Of course, in some cases sharing too much may deprive other students of the opportunity to learn and develop their problem-solving abilities. We leave this middle ground to your discretion.
✓ Learning from code on the web or other sources is allowed, as long as you do not copy it by any means (including looking and typing it). Again, learning abstract ideas is allowed, though you should use good judgment to ensure that you learn how to solve programming problems.
✓ Very generic code snippets (e.g., `if __name__ == "__main__": ...`) and the names of library functions should not require any copying. You should know those from memory.

Penalties

Any clear violation of academic integrity may have the following consequences:

- Referral to the Office of Student Rights and Responsibilities in the Office of the Dean of Students.
- A zero for the assignment in question, for very minor instances (e.g., 1-3 lines of code from the web on a homework).
- Reduction of final course grade by one letter.
- Failure of the course.

Also, note the following:

- Any action that results in another student violating this policy is a violation of this policy.
- Actions taken to conceal activities that may be in violation of this policy is a violation of this policy.
- All work is subject to screening for plagiarism and similarity with other students work.

How to report cheating

We encourage you to report any cheating you see or hear about to the instructor. You may do so in person, by email, or anonymously (e.g., non-Purdue email address that does not identify you, note under door, etc.). In doing so, you will be improving the fairness for the entire class, while also teaching the individual(s) a valuable lesson.

Even if you do not wish to name an individual, we welcome any feedback you may have about how we can ensure fairness and integrity in this course.

Guarding your code

Students are expected to take reasonable measures to protect their work and to ensure no other students may have access to their work at any time. Do not share any computer account passwords with anyone and do not leave your workstation unlocked when you are not physically present. Exercise caution when printing to public printers and do not leave any printouts unattended. Failure to protect course work may be viewed as academic dishonesty. Students are expected to report lost work or un-authorized access to course accounts immediately to the course staff.

Do not post your code **publicly** (e.g., GitHub, home page, etc.) at any time, including after the end of the class.

Violent behavior

Purdue University is committed to providing a safe and secure campus environment for members of the university community. Purdue strives to create an educational environment for students and a work environment for employees that promote educational and career goals. Violent Behavior impedes such goals. Therefore, Violent Behavior is prohibited in or on any University Facility or while participating in any university activity.

Nondiscrimination

Purdue University is committed to maintaining a community which recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the University seeks to develop and nurture diversity. The University believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas, and enriches campus life.

Purdue University prohibits discrimination against any member of the University community on the basis of race, religion, color, sex, age, national origin or ancestry, genetic information, marital status, parental status, sexual orientation, gender identity and expression, disability, or status as a veteran. The University will conduct its programs, services and activities consistent with applicable federal, state and local laws, regulations and orders and in conformance with the procedures and limitations as set forth in Executive Memorandum No. D-1, which provides specific contractual rights and remedies. Any student who believes they have been discriminated against may visit www.purdue.edu/report-hate to submit a complaint to the Office of Institutional Equity. Information may be reported anonymously.

Copyright

Among the materials that may be protected by copyright law are the lectures, course materials, this web site, assignments, quizzes, exams, and other material presented in class or as part of the course. Always assume the materials presented by an instructor are protected by copyright unless the instructor has stated otherwise. Students enrolled in, and authorized visitors to, Purdue University courses are permitted to take notes, which they may use for individual/group study or for other non-commercial purposes reasonably arising from enrollment in the course during the semester in which the student was enrolled.

Notes taken in class are, however, generally considered to be "derivative works" of the instructor's presentations and materials, and they are thus subject to the instructor's copyright in such presentations and materials. No individual is permitted to sell or otherwise barter notes, either to other students or to any commercial concern, for a

course without the express written permission of the course instructor. To obtain permission to sell or barter notes, the individual wishing to sell or barter the notes must be registered in the course or must be an approved visitor to the class. Course instructors may choose to grant or not grant such permission at their own discretion and may require a review of the notes prior to their being sold or bartered. If they do grant such permission, they may revoke it at any time, if they so choose.

Changes

This syllabus is subject to change. Should the need arise to change any section, the students will be notified by email of the change.