**CS 30600 Computers in Society**

**Sections: (CS 30600-02D-02I - 03D-03I - 06D-06I) FALL 2019 Semester**

**PLEASE TURN OFF CELL PHONES AND PAGERS DURING CLASS!**

**DO NOT SURF THE WEB, I.M. WITH FRIENDS, OR READ EMAIL IN CLASS!**

**IT’S RUDE AND ANNOYING TO YOUR FELLOW CLASSMATES AND MYSELF**

**IF CAUGHT YOU WILL BE REQUIRED TO DO SOMETHING UNPLEASANT**

**1. Course Description**

**Course Description**

Case study analysis of the social impacts of computerization and networking. Topics include computer ethics, crime, privacy, security, reliability, and vulnerability. Other topics include cyberphilia, cyberphobia, censorship, depersonalization, disenfranchisement, automated decision making, artificial intelligence, cognitive science, and ergonomics. Students present projects applying these issues to today’s environment.

Co-requisites: Junior class standing.

**2. Course Goals:**

 **Course Learning Outcomes**

Specific learning outcomes are listed below. Upon successful completion of the course requirements, a student should be able to:

1. Analyze reading materials and apply in class discussions to the real world of work situations, which are relevant to social impacts of computerization and complex computing-based problem affecting in our society, social media and Internet of networking [GenEd:8.2] [Ch1: Privacy:Ch3:Freedom of Speech]. Ex:10 Current Event Analysis papers.

2. Apply reading assignments/case study analysis to evaluate the real world issues and problems, relating to real issues such as: computer ethics, crime, and privacy, freedom of speech security, reliability, and vulnerability based on legal and ethical principles [GenEd:8.2-8.3] [Ch4&Ch5]. Ex:20-pages term-paper and 10 Current Events.

3. Understand and recognize the abuse of computer technology and those who have created it. This creates many problems for people and society such as: cyberphilia, cyber phobia, censorship depersonalization, and disenfranchisement. And this is requiring to engage in computing professional’s ethics, discipline, ethical and principle conducts [GenEd:8.3]. [Ch7&9]. Ex:20-pages term paper and 10 Current Events.

4. Understand the legality of Internet Laws or Internet security laws that govern to regulate the use of computer and internet technology that are lacking far behind in regard to making informed judgments in computing-based on legal and ethical conducts and program’s discipline [GenEd:8.4]. [Ch7,8&9]. Ex:20-pages term paper].

 5. Realize the technological change is a trade-off in which it creates jobs and eliminates jobs.

 Every advantage has its own disadvantage, which effects the social, economic and political

 landscape in our society. There are never distributed evenly among people and there are

 always loser and winners [GenEd:8.3]. [Ch5,8,9&4:Intellectual Property].

6. Understand and recognize each time technological changes, which created the ecological problems, vast, often unpredictable and largely irreversible. These create an impact of local and global of computing-based on individual’s organization and society. [GenEd:8.3,8.4]. [Ch7,8&9: Ex:20-pages term paper].

7. Able to make decisions independently, analyze, evaluate, find solution and do once own research to investigate on topic discussions in class and reading materials which related to once research topic, using technique, skills, and tools necessary for computing-based solutions, and learn great deals from it [GenEd:8.3&8.4] [Ch7,8&9: Ex:20-pages term paper].

**3. Instructor**

|  |  |  |
| --- | --- | --- |
| Name | Jacques Chansavang | Email/Emergency only: chansavj@pfw.edu |
| Office | ET 125J | Best Communication Tool uses: Blackboard emailOr setup an appointment is recommended |
| Office Hrs | TR-W 10:30 PM – 12:00 P.M | Phone: (260) 481-0205; CS Dept. (260) 481- 6803 |

**4. Time & Classroom**

|  |  |  |  |
| --- | --- | --- | --- |
| Days of the Week | Lecture Classes & Online | Starts Time | Ends Time |
| Monday - Wednesday | Sections CS30600-06D-06I KT 226 Recording | 10:30 P.M | 11:45 P.M |
| Tuesday - Thursday | Sections CS30600-02D-02I KT 241 Recording | 12:00 P.M | 1:15 P.M |
| Tuesday - Thursday | Sections CS30600-03D-03I ET 146 Recording | 1:30 P.M | 2:45 P.M |

**5. Course Web site (Blackboard Required)**

All materials associated with this course are available at <https://pfw.blackboard.com/>,

including the course syllabus, PowerPoint slides, all assignments, including Videos related to the course, recording sessions (http://ipfw.tregrity.com), and supporting resources.

**6. Books**

**6.1 Textbook**

 A Gift of Fire: Social, Legal, and Ethical Issues for Computing Technology. Sara Baase and

 Timothy M. Henry. Pearson Education Inc. ISBN-13:  978-0-13-461527-1. 2018, (5th Ed.)

**6.2 Supplemental materials**

Technologies, Social Media, and Society. Daniel Mittleman, Douglas Druckenmiller. McGraw-Hill, Annual Editions, 2019, ISBN: 13:9781260180282 (23rd/Ed.)

**7. Software**

We will be using Blackboard Learn (<http://pfw.blackboard.com>), the online environment for all assignments, Exams, online discussions, Research term paper, Current Events analysis paper, and PowerPoints presentations. If you have any question regarding Blackboard Learn, please you visit: <http://www.pfw.edu/search/results.html?q=blackboard%20Learn> and you may call IPFW HELPDESK at (260)-481-6030 or email to (helpdesk@pfw.edu) for more information and/or Information Technology Service (ITS) or visit (<https://www.pfw.edu/its/>). Also take advantages of free download of software Microsoft Office from the university.

**8. Grading Policy**

Grades are based on all assignments, attendance and exams. These are weighted as follows:

|  |  |  |
| --- | --- | --- |
| **Mid-Term:****Final Examination:**(Multiple Choice and T/F Questions) **Research Term Paper:****Discussions/Participation+Current\_Events:** (WeeklyHwk:Current Events+Handsouts, if any ) **[Lecture calls Attendance] Online Attendance\*** (Class Attendance and Discussion, if you miss 3 and more class periods your grade could be dropped by a Letter Grade)Total: | 15%30%20%25% 10%**100%** | **Scale**90-100% =A80-89% =B70-79% =C60-69% =DBelow 60% =F**\* Online only:** Participation in all online Discussions and Points Earned = 10% attendance**\***Meaning: Within 24/7 days(1) you must login on Blackboard at least twice/wk and (2) must participate in weekly discussions. |
|  |  |  |

For credit on a given assignment, it must be submitted by the end of assignment deadline,Sunday at 11:59 P.M on Blackboard which announced due date on the assignment. Late submission that is accepted will be penalized as follows:

1 day late: 5% deduction 2 days late: 15% deduction

3 days late: 25% deduction Not accept submissions after 3 days

***Course Policies***

**Attendance:**

 I call the attendance. Regular attendance is strongly encouraged, especially lecture students. Students who attend regularly typically have the best performance. If you miss class, you are responsible for making up the material. I take an attendance every class. **Attendance** **and** **participation is** 10% of overall grade. If you miss 3 or more class periods your final grade could potentially be dropped by letter grade.

**Assignments (Research term paper/Current Events)** (45% of overall grade)

 No late assignments and project will be accepted. For some reasons, a 10% penalty will be imposed for each day that assignment is late. I will grade every assignment or exam once I receive these assignments or exam from every one of you.

All assignments and projects must be in computer-printed-out and NO handing writing is acceptable, unless you are excused for some reason. You can turn in electronically your assignments on Blackboard assignment page (in .pdf file or in .docx file).

You need to specify your file name as such “LastnameFirst(Assignment#-Topic-Title).docx. For Current Event 1 example: name your file, like -

TrumpDonald(CE1-WhiteHouseHacked).docx and/or Research Term paper example, like - TrumpD(Employee-Monitoring-in-Workplace).docx.

**Exams** (45% of overall grade)

 There are two exams (Midterm/Final) and a final exam during/before finals week (see tentative schedule on Blackboard). Exams are online. No make-ups will be given unless approved in advance or in case of a valid emergency. In the latter case, contact the instructor immediately.

**Communication:**

 I expect students to contribute in the classroom, by asking questions, making suggestions, and seeking out help if needed. This is a “must” to obtain a 10% attendance. Outside of the classroom, I will respond to emails and be available during office hours. Please do not wait until the end of the semester to inform me of problems or make suggestions to improve the course; your feedback can help shape the course content and requirements.

**Academic Honesty:**

 Do your own work. I expect that students will help each other troubleshoot and solve problems together in this course. However, assignments should be done individually, so you should not copy or provide your work to other students in the class. You will receive a zero if you are caught cheating or plagiarizing, and will automatically fail the course if caught a second time. Quote your reference if you copy from any reading materials.

***Research and Reading Course-related Materials:***

 I expect student to learn researching course-related materials and reading them – a detail related to topics of your research term paper and current events are provided on Blackboard assignment page.

***Lap-Top Computer in Classes***

 Students are quite welcome to use lab-top computers to take/read class-notes. However, either your lap-top computers will be forfeited or you are no longer can used your lab-top in classes, if you use your lap-top for other activities which are not related to the course.

***Note to Students with Disabilities:***

 If you have a disability and need assistance, special arrangements can be made to accommodate most needs. Contact the Office for Services for Students with Disabilities (SSD). They are located in Walb Student Union, room 113, telephone number 481-6658, as soon as possible to work out the details. Once the Director has provided you with a letter attesting to your needs for modification, bring the letter to me. For more information, please visit the web site for SSD at <http://www.pfw.edu/ssd/>.

***Note for Free Personal Counseling Services:***

 PFW and the Department of Computer Science recognize that personal problems can sometimes interfere with a student’s ability to progress in his/her academic program. To help students address such problems IPFW makes free personal counseling services available in Walb 210. To schedule an appointment with an IPFW/PARKVIEW Student Assistance Program (SAP) counselor call 373-8060.

**9. Teaching Assistance: None**

**10. What to submit**

 In case of electronic submission, a single file attaching it to Blackboard Assignment (see specified file name on the assignment), using attachment file option. If there is an emergency you can also attach your file with Blackboard email. If requested by the instructor, you may also be required to submit hard copy of your assignments such as current events and research term paper.

**11. Tentative Calendar [I will continue update the following table.] – 16 weeks of classes**

|  |  |  |  |
| --- | --- | --- | --- |
| **Week #** | **Textbooks:****1. Gift Of Fire.** **2.** **Technologies, Social Media, and Society** | **Reading/Discussion Assignments: -** Gift of Fire **(GoF) -** Technologies, Social Media, and Society **(T&S)** | **Home Work Assignments:**Name your current event assignment, like this: **SmithJon(CE1-Crime).docx****1. All Current Events are due online (Blackboard), Very Sunday at 11:59 PM.****2. Weekly Discussions due Very Sunday at 11:59 PM.** |
| Week 1-Monday Aug.26th – Sep.1st  | Overview Gift of Fire:**Ch1:** Unwrapping The Gift | **GoF:** Ch 1.1 -1.2**URL:** Internet World Stats**T&S Unit1:**What World Are We Building? | 1.Self – Introductions (online)! 2.Wkly Current Event#1: LastN(CE1-Topic-Name).docx |
| Week2-Tuesday Sep.3rd –8thNo Class on MondayHoliday Recess, Sep.2nd | Themes and IssuesEthics**Ch2: Privacy**:What is Privacy? | **GoF:** Ch 1.3 - 1.4**GoF:** Ch 2.1-2.2 **T&S Unit8:**Rules for Social Media, Created by Kids=======================Labor Day Holiday-No Class Monday | 1.Wkly Current Event#2: LastN(CE2-Topic-Name).docx2. Introduce “Term Paper Topic Selection”: Due on BlackboardSee Blackboard Assignment page. |
| Week 3-MondaySep.9th -15th | **Ch2: Privacy cont** Business and Social Sectors | **GoF:** Ch 2.3-2.6 **T&S Unit8:** Caution: Identity under Construction**T&S Unit5:** Know Your Rights! Google it **URL:** **-**Federal Privacy laws-How Stuff Works: How Encryption Works | 1.Wkly Current Event#3: LastN(CE3-Topic-Name).docx2. Term paper Sources research: Due on Blackboard |
| Week 4-Monday Sep.16th -22nd  | **Ch2: Privacy cont..** **Ch3: Freedom of Speech**  | **GoF:** Ch 3.1-3.3**T&S Unit9:** Are There Limits to Online Free Speech? | 1.Wkly Current Event#4: LastN(CE4-Topic-Name).docx 2.Term Paper Outlines: Due on Blackboard next week.  |
| Week 5-MondaySep.23rd-29th  | **Ch3: Freedom of Speech** **FRONTLINE:** Video "Documenting Hate: Charlottesville" | **GoF:** Ch 3.3 - 3.6**T&S Unit9:** What’s Propaganda Got to Do with It? | 1.Wkly Current Event#5: LastN(CE5-Topic-Name).docxVisit Electronic Librarian for CS306002.Term Paper Outlines: Due before midnight 11:59 PM. |
| Week 6-Monday Sep.30th-Oct.6th | **Ch3: Freedom of Speech** **Ch4: Intellectual Property** | **GoF:** Ch 4.1 - 4.2**T&S Unit1:** Is Nothing about Your Life Private? | 1.Wkly Current Event#6: LastN(CE6-Topic-Name).docx |
| Week 7-MondayOct.7th--Oct.13th | **Ch4: Intellectual Property**  | **GoF:** Ch 4.3 - 4.5**T&S Unit2:** How Online Shopping Makes Suckers of Us All | 1.Wkly Current Event#7: LastN(CE7-Topic-Name).docx |
| Week 8-MondayOct.14th-20th | **Ch4: Intellectual Property cont.:**File sharing and piracy. Done! | **GoF: Midterm Exams**Chapters 1 – 4 only! | 1.Wkly Current Event#8: LastN(CE8-Topic-Name).docx |
| September 23–October 21 Midterm Grading

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| --- |
| **[1].**Midterm Exam Schedules on (MW) Wednesday, Oct. 16th and on (TR) Thursday, Oct. 17th (October 2019. Information will be posted on Blackboard two weeks ahead (Read you email!)**[2].**FALL BREAK - CLASSES SUSPENDED – OCTOBER, Monday 21st – Tuesday 22nd- |

 |
| Week 9-MondayOct.21st-22nd Fall Break. Class resumes: Wed.Oct.23rd | **Ch5: Crime and Security**Suggested Guest speaker: Campus Information Security Officer | **GoF:** Ch 5.1 - 5.2**T&S Unit 4: Google it** How Phishing Works**URL:** 10 Tips to Avoid Phishing Scams | 1.Wkly Current Event#9: LastN(CE9-Topic-Name).docx |
| Week10-MondayOct.28th-Nov.3rd  | **Ch5: Crime and security continues…****Crime Fighting** | **GoF:** Ch 5.3 - 5.4**T&S Unit 3:**Robots Stealing Human Jobs Isn’t the Problem**T&S Unit 5:**Twitter’s New Order | 1.Wkly Current Event#10: LastN(CE10-Topic-Name).docx2. Focus on and Finalize on Term Papers |
| Week11-MondayNov.4th-Nov.10th  | **Ch6: Work** | **GoF:** Ch 6 6.1 -6.3**T&S Unit 3:** How Technology Is Destroying Jobs**T&S Unit 5:** Cybersecurity: The Age of the Megabreach, | 1. Assigns: Preparing PowerPoints presentation from Term Papers.2. Finalize Term Paper & Review |
| FINAL TERM PAPERS DUE ON MONDAY, **NOVEMBER 11th, 2019 at 11:59 P.M** (See Blackboard Schedule) |
| Week12-MondayNov.11-Nov.17th  | **Ch7: Evaluating and controlling Technology**Discussion Assign#14 -  | **GoF:** Ch 7 7.1-7.4**T&S Unit 4:**Will Democracy Survive Big Data and Artificial Intelligence?**T&S Unit 7: Any of them!** | 1. Finalize Term Paper: DueMonday, Nov-11th, due on Blackboard |
| Week13-MondayNov.18th-Nov.24th  | **Ch8: Errors, Failures and Risk**  | **GoF:** Ch 8.1-8.2 Case Study Therac-25**T&S Unit 9:** Cybersecurity: The Age of the Megabreach, | 3. Final Term Paper: Last & final opportunity Nov-12th, due on Blackboard. 1st week of Term Paper [ask for volunteers] presentations begins this week. |
| Week14-Monday Nov.25th-Nov.26th Thanksgiving recess until Dec.1st | **Ch8: Errors, Failures and Risk cont.:** | **GoF:** Ch 8.3 - 8.4**T&S Unit 9:** Google’s European Conundrum: When Does Privacy Mean Censorship? | 2nd week of Term Paper presentations begins this week. |
| **THANKSGIVING RECESS BEGINS NOVEMBER 26th – DECEMBER 1st****Class resumes December 2nd. See PFW Fall Academic Calendar 2019** |
| Week15-MondayDec.2nd-Dec.8th | **Ch9: Professional Ethics and Responsibilities** | **GoF:** Ch 9 Cases and scenarios **T&S Unit 5:** 10 Ways to Make the Internet Safe from | 3rd Week of Term Paper presentations this final week. |
| Week16-MondayDec.9th-Dec.15th  | **Ch9: Professional Ethics and Responsibilities** | **GoF:** Ch 9 Cases/Scenarios  | **Last chance for Final week of Presentations**  |
| Week17-Monday Dec.16thDec.22th  | **Final Exam Week:**December, (MW) Wednesday 16th  & (TR) Thursday, 17th 2019 | **GoF:** Ch 5 – 9**T&S:** Units cover above | **Final Exam:** Ch: **(5, 6, 7, 8 & 9)****Also check on Blackboard schedule for specific date and time.** |

**12. Other Policies**

**Academic Honesty Policy:**

Do your own work. I expect that students will help each other troubleshoot and solve problems together in this course. However, assignments should be done individually, so you should not copy or provide your work to other students in the class. You will receive a zero if you are caught cheating or plagiarizing, and will automatically fail the course if caught a second time. Quote your reference if you copy from any reading materials.

Seeking assistance means asking someone to show or tell you how to complete a task,

working together to complete a task, or copying someone’s work including solutions that may be found on the internet. The penalty for the first violation of this policy is a score of 0; a subsequent violation will result in a grade of ‘F’ for the class and the placement of a memo describing the infraction in the CS Department’s files. For non-majors the memo will be forwarded to the student’s major department.

**Make-Ups:** Make-ups and incompletes will be given only in extreme circumstances. To schedule a make-up exam you must contact either the instructor or Department office prior to the date and time of the exam. The instructor reserves the right to either allow a makeup with penalty, a makeup without penalty, or deny a makeup as it relates to the circumstances and

the promptness of notice. Expect to provide documentation for the makeup.

**Attendance Policy:** Class attendance is a University requirement. I will expect you to attend every class. I will be taking attendance and your grade may be adversely affected by any absences. In the event you cannot attend class you are responsible for obtaining any course- related information or materials.

**Note to Students with Disabilities:** If you have a disability and need assistance, special arrangements can be made to accommodate most needs. Contact the Office for Services for Students with Disabilities (SSD) as soon as possible to work out the details. They are located in Walb Student Union, room 113, telephone number 481-6658. Once the Director has provided you with a letter attesting to your needs for modification, bring the letter to the instructor. For more information, please visit the web site for SSD at <http://www.ipfw.edu/ssd/>.

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an IPFW/PARKVIEW Student Assistance Program (SAP) counselor call 226-8060.

**Course Evaluation Surveys:** Course evaluation is an important component of the Department’s assessment plan. Data gathered from assessment surveys helps us to evaluate and improve course content and delivery. To ensure that these data reflect the experiences of all students, your participation is **required** in both the Student Evaluation of Instruction and the Course Learning Outcomes Assessment surveys. These surveys are distributed online via the Purdue Qualtrics system and each take 2-5 minutes to complete. Approximately two week prior to the end of the semester you will receive a link to each survey via your IPFW email account. These surveys are anonymous and no results will be released to the instructor until after the end of the semester. The CS Dept. expects that you complete both surveys before the final exam date. If you have any difficulties accessing a survey, you should immediately

notify the instructor or Department secretary Kaye Pitcher (pitcherk@pfw.edu 260-481-6803).

**13. How Can We Help You?**

One of the hallmarks of a professional in any field is to know when she/he does not know some fact, procedure, or principle and realizes that answers must be sought from another source. This is certainly standard practice in the computing field, where assistance is sought on a daily basis from personal relationships such as your cubicle-mate, your boss, your employee, a friend across the room or across the world (via the Internet), or from numerous non-person sources. In this course, we want you to begin to exercise such professional practices. You do not have to feel “alone” when struggling with problems. Here are some of the resources that are available to you:

 lab assistant(s) for this course as well as the other sections professor(s)

 classmates in this course

 students who have taken a similar course before

 tutors at Center for Academic Support and Advancement (CASA, [www.pfw.edu/casa](http://www.pfw.edu/casa))

**have been exceedingly helpful to students** in this course in the past

 web-sites with relevant information on similar courses

 web-site for Sun Microsystems [http://www.sun.com](http://www.sun.com/) or www.oracle.com/sun

 web-site for Borland (MicroFocus Group) [http://www.borland.com](http://www.borland.com/)

* https://www.eclipse.org/

[**General Education: Capstone**](http://catalog.pfw.edu/preview_program.php?catoid=51&poid=11075) **– Link** [***https://www.pfw.edu/academics/general-education/index.html***](https://www.pfw.edu/academics/general-education/index.html)

### **Learning Outcomes for Category C: Capstone**

 In addition to the 30 credit transfer core, all Purdue Fort Wayne bachelor’s degree candidates are expected to complete an approved three credit capstone course at the 300 level or higher. The capstone course reflects the faculty commitment to the acquisition and application of knowledge as fundamental to the baccalaureate degree, and allows flexibility and innovation in capstone course creation.

 All capstone projects will involve the acquisition or application of knowledge. This should be broadly construed and may include the exploration of any discipline-specific scholarship including the scholarly activities typically associated with the professional schools, service professions, engineering, and the performing arts. A capstone may center on any aspect of university life as long as its primary focus is on the acquisition or application of knowledge. The project may involve a formal service-learning experience, or a formal international study experience as its primary focus.

 All capstone projects, including those in the performing arts, shall produce a significant product in a discipline-appropriate format, demonstrating the scholarly methods, techniques, and conventions associated with the discipline.

**Upon completion of the capstone, students will be able to:**

8.1. Produce an original work involving the creation or application of knowledge, performance or service.

8.2. Report the results of original work through a discipline-appropriate product.

8.3. Demonstrate a high level of personal integrity and professional ethics by understanding the ethical responsibilities related to the profession associated with the subject of the capstone project.

8.4. Demonstrate critical-thinking abilities and familiarity with quantitative and/or qualitative reasoning.

**ABET Outcomes and Program Outcomes**

*CS 2019 Criteria for Accrediting Computing Programs.* The program must enable students to attain, by the time of graduation.

***The New ABET Student Outcomes [Fall 2019]***

The program enables students to achieve, by the time of graduation:

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program’s discipline
3. Communicate effectively in a variety of professional contexts
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program’s discipline
6. Apply computer science theory and software development fundamentals to produce computing-based solutions [CS]

***Update Date: August 7th, 2019***