IFT 401 – Capstone Project 1
Arizona State University
Ira A. Fulton Schools of Engineering
The Polytechnic School

Instructor: Dr. Gennaro De Luca
Email: gennaro.deluca@asu.edu

Course Website: Assignments, announcements, and other course materials will be posted to Canvas via myASU. Grades will also be posted on Canvas. Make sure to check Canvas and your ASU email regularly.

Course Description:
The first half of a comprehensive project experience based on cumulative knowledge and skills gained in earlier coursework.
Enrollment prerequisites: IFT 250 with C or better; IFT 266 with C or better; IFT 301 with C or better; IFT 310 with C or better; IFT 360 with C or better; IFT 381 with C or better; minimum senior standing

Recommended Textbooks:
Note: Both textbooks are provided for free within the Canvas.


Discussion Forums
- The purpose of the discussion forum is to encourage students to discuss course materials with one another. Post your questions, answer questions posted by your peers, share a useful tip, tool or practice that helped you with your coursework.
- All questions about grades and such should be emailed to the instructor and not posted to the forums.

Course Learning Objectives:
1. Computing Practice. An ability to employ knowledge, methods, skills, modern software engineering tools, and team-based approaches appropriate for interdisciplinary and multicultural settings in arriving at computing problem
2. Critical Thinking and Decision Making. An ability to think critically, clearly identifying and using evidence, criteria, and values in the decision making
3. Project Management Tools. An ability to know to use project management tools to define tasks, track the progress of action items and key milestones, and allocate resources
4. Perspective. An understanding of the role and impact of engineering and computing technology in business, global, economic, environmental, and societal contexts.
5. Problem Solving. An ability to identify, formulate, and solve problems whose solutions require digital and software systems using the steps of an analytical problem-solving approach.
6. Communication. An ability to communicate effectively with the subordinates/peers you would work with.
7. **Technical Competence.** An ability to apply, evaluate, and adapt knowledge of mathematics, software computer science, computer systems, and software engineering in generating complex solutions to problems in a software engineering system.

8. **Teamwork.** Graduates are able to function effectively on interdisciplinary teams.

9. **Design.** An ability to design a digital or software system, component, or process to meet desired needs within realistic constraints.

**Grading**

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Milestone 0</td>
<td>20%</td>
</tr>
<tr>
<td>Milestone 1</td>
<td>10%</td>
</tr>
<tr>
<td>Milestone 2</td>
<td>20%</td>
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<tr>
<td>Milestone 3</td>
<td>20%</td>
</tr>
<tr>
<td>Sprints</td>
<td>30%</td>
</tr>
</tbody>
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Note: Students who do self-defined projects will be given 0s for sprints unless milestones 0-3 all have passing grades. Sprints will have no late submissions accepted. Students who want to do a mentored project must sign up for their desired project before all slots are filled (specified in project descriptions).

The final letter grade is decided according to the percentage points obtained as follows:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
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<tbody>
<tr>
<td>&gt;= 98.0 &lt;= 100.0</td>
<td>A+</td>
</tr>
<tr>
<td>&gt;= 93.0 &lt; 98.0</td>
<td>A</td>
</tr>
<tr>
<td>&gt;= 90.0 &lt; 93.0</td>
<td>A-</td>
</tr>
<tr>
<td>&gt;= 88.0 &lt; 90.0</td>
<td>B+</td>
</tr>
<tr>
<td>&gt;= 83.0 &lt; 88.0</td>
<td>B</td>
</tr>
<tr>
<td>&gt;= 80.0 &lt; 83.0</td>
<td>B-</td>
</tr>
<tr>
<td>&gt;= 78.0 &lt; 80.0</td>
<td>C+</td>
</tr>
<tr>
<td>&gt;= 70.0 &lt; 78.0</td>
<td>C</td>
</tr>
<tr>
<td>&gt;= 60.0 &lt; 70.0</td>
<td>D</td>
</tr>
<tr>
<td>&lt; 60.0</td>
<td>E</td>
</tr>
</tbody>
</table>

**Face Cover Policy**

The ASU Face Cover Policy [https://www.asu.edu/about/fall-2021#face-coverings](https://www.asu.edu/about/fall-2021#face-coverings) requires the wearing of face covers in the majority of classrooms, teaching laboratories, studios, and workshop settings. The space for this class has been designated as a space requiring face covers. Please wear a face covering over your nose and mouth at all times during class for the health and safety of yourself and others.

**Absence Policy**

If you anticipate not being able to attend any face to face courses due to travel restrictions or personal health concerns, you are expected to contact your professor at the beginning of the semester or as soon as your situation changes to notify them of this fact.

Below is a list of excused absences:
1) Excused absences related to religious observances/practices that are in accord with ACD 304–04, “Accommodation for Religious Practices”

2) Excused absences related to university sanctioned events/activities that are in accord with ACD 304–02, “Missed Classes Due to University-Sanctioned Activities”

3) Excused absences related to missed class due to military line-of-duty activities that are in accord with ACD 304–11, “Missed Class Due to Military Line-of-Duty Activities,” and SSM 201–18, “Accommodating Active Duty Military”

Expected Classroom Behavior
Until further notified, per ASU policy, faculty, staff, students, and visitors, are required to wear face coverings in classrooms, labs, offices, and community spaces.

Academic Integrity
Each student has an obligation to act with honesty and integrity, and to respect the rights of others in carrying out all academic assignments. In this class, any student who is found to have violated the Academic Integrity policy will, as a minimum, receive a 0 on the assignment. The provided URL defines the policy as well as the process to be used if a student wishes to appeal this action.

Arizona State University maintains the highest standard for academic honesty and trusts that each student will perform ethically and professionally when preparing the required work for this course. Each assignment must represent the student’s collective original work, even for work designated as group work. Although ASU encourages collaboration between students, and faculty, in the sharing of ideas and experiences, individual work needs to represent the student’s original thought and be distinguishably different from other students’ work. While discussions between students are encouraged, cheating will not be tolerated. Any student found cheating on an exam, a quiz, or assignment may be given a failing grade for the course and flagrant violations can result in additional consequences. You are cheating if you represent someone else’s work as your own or if someone else represents your work as theirs.

All graded work (exams, homework assignments, as well as any written exercises or quizzes) in this class must represent your own individual work only. Students may discuss the conceptual aspects of an assignment, but students must turn in their own, independently developed solutions. Grading will include comparing the structure and content of your solution with that of other students. By registration in this class, you are assumed to have read, understand and agree to this policy, as well as to the procedures conveyed at the web sites below. In particular, the discussion of the exam details is forbidden.

* Academic integrity policy: [https://provost.asu.edu/academicintegrity](https://provost.asu.edu/academicintegrity)
* Student code of conduct: [https://eoss.asu.edu/dos/srr/codeofconduct](https://eoss.asu.edu/dos/srr/codeofconduct)
* Student life’s Student Academic Integrity Policy: [http://www.asu.edu/studentlife/judicial/integrity.html](http://www.asu.edu/studentlife/judicial/integrity.html)
* Fulton School of Engineering’s Academic Integrity Information Page: [http://engineering.asu.edu/integrity](http://engineering.asu.edu/integrity)
* Title IX is a federal law that provides that no person be excluded on the basis of sex from participation in, be denied benefits of, or be subjected to discrimination under any education program or activity. Both Title IX and university policy make clear that sexual violence and harassment based on sex is prohibited. An individual who believes they have been subjected to sexual violence or harassed on the basis of sex can seek support, including counseling and academic support, from the university. If you or someone you know has been harassed on the
basis of sex or sexually assaulted, you can find information and resources at https://sexualviolenceprevention.asu.edu/faqs.

- As a mandated reporter, I am obligated to report any information I become aware of regarding alleged acts of sexual discrimination, including sexual violence and dating violence. ASU Counseling Services, https://eoss.asu.edu/counseling, is available if you wish to discuss any concerns confidentially and privately.

Copyright

All course content and materials, including lectures (Zoom recorded lectures included), are copyrighted materials and students may not share outside the class, upload to online websites not approved by the instructor, sell, or distribute course content or notes taken during the conduct of the course (see ACD 304–06, “Commercial Note Taking Services” and ABOR Policy 5-308 F.14 for more information).

You must refrain from uploading to any course shell, discussion board, or website used by the course instructor or other course forum, material that is not the student’s original work, unless the students first comply with all applicable copyright laws; faculty members reserve the right to delete materials on the grounds of suspected copyright infringement.

Policy Against Threatening Behavior per Student Services Manual, SSM 104–02

Students, faculty, staff, and other individuals do not have an unqualified right of access to university grounds, property, or services. Interfering with the peaceful conduct of university-related business or activities or remaining on campus grounds after a request to leave may be considered a crime. All incidents and allegations of violent or threatening conduct by an ASU student (whether on- or off-campus) must be reported to the ASU Police Department (ASU PD) and the Office of the Dean of Students.

Disability Accommodations

Suitable accommodations will be made for students having disabilities. Students needing accommodations must register with the ASU Disabilities Resource Center and provide documentation of that registration to the instructor. Students should communicate the need for an accommodation in sufficient time for it to be properly arranged. See ACD 304-08 Classroom and Testing Accommodations for Students with Disabilities.

Harassment and Sexual Discrimination

Arizona State University is committed to providing an environment free of discrimination, harassment, or retaliation for the entire university community, including all students, faculty members, staff employees, and guests. ASU expressly prohibits discrimination, harassment, and retaliation by employees, students, contractors, or agents of the university based on any protected status: race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity, and genetic information.

Title IX is a federal law that provides that no person be excluded on the basis of sex from participation in, be denied benefits of, or be subjected to discrimination under any education program or activity. Both Title IX and university policy make clear that sexual violence and harassment based on sex is prohibited. An individual who believes they have been subjected to sexual violence or harassed on the basis of sex can seek support, including counseling and academic support, from the university. If you or
someone you know has been harassed on the basis of sex or sexually assaulted, you can find information and resources at https://sexualviolenceprevention.asu.edu/faqs.

**Mandated sexual harassment reporter:** As a mandated reporter, I am obligated to report any information I become aware of regarding alleged acts of sexual discrimination, including sexual violence and dating violence. ASU Counseling Services, https://eoss.asu.edu/counseling, is available if you wish discuss any concerns confidentially and privately.