FAI	COURSE CHANGE REQUEST		UUPC Approval <u>/0-/2-20</u> UFS Approval	
1.00	Undergraduate Programs		SCNS Submittal	
FLORIDA	Department: Ocean & Mechanical Engineering		Confirmed	
ATLANTIC	College: Engineering & Computer Science		Banner Posted	
UNIVERSITI	College: Engineering & Computer Science		Catalog	
Current CourseEOC 4804LCurrent Course Title:Ocean Engineering Systems ControlPrefix and Numberand Design Project			neering Systems Control	
Syllabus must be attached for ANY changes to current course details. See <u>Checklist</u> , Please consult and list departments that may be affected by the changes; attach documentation.				
Change title to:	RI: Ocean Engineering	Systems	Change description to	:
Control and Des	ign <mark>Laboratory</mark>			
Change prefix				
From:	То:		Change prorequisites	minimum grades to:
Change course i	number		change prerequisites/	inininum graues to.
From:	То:			
Change credits*				
From:	То:		Change corequisites to):
Change grading				
From:	То:			
Change WAC/Go	ordon Rule status**		Change registration co	ontrols to:
Add	Remove		0 0	
Change General Education Requirements*** Add Remove *Review Provost Memorandum **WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to this form. See WAC Guidelines. ***General Education criteria must be indicated in syllabus and approval attached to this form. See GE Guidelines.		Please list existing and new p and include minimum passin	ore/corequisites, specify AND or OR g grade (default is D-).	
(TERM & YEAR)	FALL 2021 Terminate course List final active term			
Faculty Contact/H	Email/Phone: Dr. P. Edga	r An/pan@fa	u.edu/561-297-2792	
Approved by	Digitally signed by Manhar Dhanak	University ou=Ocean a	nd	Date
Department Chair DN: cn=Manhar Dhanak, o=Florida Atlantic University, ou=Ocean and Mechnical Engineering, email=dhanak@fau.edu gr:US Date: 2020.10.05 13:26:36 -05'00'				
College Curriculum Chain		10 2/2020		
College Dean				
UUPC Chair Jerry Haky		10-12-20		
Undergraduate Studies Dean <u>EUWWRV Print</u> <u>10-12-20</u>			10-12-20	
UFS President				
Provost				

1. Course title/number, number of credit hours				
RI: EOC	RI: EOC 4804L Ocean Engineering Systems Control & 4 credit hours			
Design	Design Lab			
2. Instructional Method				
Due to	the COVID-19 situation, this course will exceptio	nally be taught as a hybrid course this		
semest	er:			
1)	Every class material will be posted on CANVAS ap	pproximately one week before the lecture, in		
	the form of Powerpoint/Word/PDF/scanned document.			
2)	The lectures will be offered via 200M during sch	eduled class time. During these lectures, class		
	material, examples and discussions will be offered	d. ZOOM lectures will be accessed in CANVAS:		
	login CANVAS, select this course, select 200M if	n the left column (it will probably be at the		
2)	Everyweek up to 1/ students can sign up to seat	in the physical class room (STaro at the Dania		
3/	Beach SeaTech campus) To do so you must use	the sign-up tool on CANVAS Instructions on		
	how to use the tools are provided in the FILE fold	er "Seat reservation instructions"		
۵)	Quizzes, midterms and finals will also take place	online using CANVAS testing features. The		
77	procedure will be explained in class.	- · · · · · · · · · · · · · · · · · · ·		
5)	Physical presence will only be required for each la	b, in small groups and according to FAU safety		
	regulations. The instructor will provide instructio	ns on when to attend the labs. These labs will		
	take place at the SeaTech building. This course in	ncludes 6 labs.		
Additio	nal instructions for this Hybrid Course:			
6)	Canvas registration is required.			
7)	The instructor will regularly post materials/annou	ncements on <i>Canvas</i> . It is the student's		
	responsibility to regularly check Canvas and FAU	email for the most recent information.		
8)	No hard-copy handouts will be provided. Copies	will be posted in files on <i>Canvas</i> .		
9)	If you wish to discuss material with the instructor,	you will first need a reliable internet condition		
	capable of streaming ZOOM and WEBEX. Recom	mended: Broadband Internet connection with		
	a speed of 4 Mbps or higher. To function properly	, Canvas requires a nign-speed internet		
	connection (cable modern, DSL, satellite broadba	ind, 11, etc.). The minimum internet		
	connection speed to access Canvas is a consistent 1.5 Mbps (megabits per second) or higher.			
10)	Check your internet speed here.			
10)	Sierra (or higher) Microsoft Office web browser a webcam speakers and microphone which			
	should be compatible with the most recent version of ZOOM and Cisco WEBEX.			
11)	These are the links where you can find the steps t	o use your cell phone as a webcam.		
	For Android:			
	https://helpdesk.fau.edu/TDClient/2061/Portal/KB	3/ArticleDet?ID=104057		
	For iPhone or iPad			
	https://helpdesk.fau.edu/TDClient/2061/Portal/KE	3/ArticleDet?ID=104056		
10+6	up the up in the test being a second start the second start	ton Looper Drearen at CALLES first		
In the event you might not have a computer, there is a Laptop Loaner Program at FAU for first-				
https://www.fau.edu/newsdesk/articles/fau-announces-lanton-loaner-program.php				
3. COVID 19 Statement				
All stud	ents in face-to-face classes are required to wear m	asks during class, and students must sanitize		
their own workstations upon entering the classroom. Taking these measures supports the safety and				
protect	ion of the FAU community. Students who do not a	dhere to these rules will be asked to leave the		
classroom and/or be removed from the course. Students experiencing flu-like symptoms (fever, cough,				

Contact FALLStudent Health S			
contact i Ao Stodent Health S	ervices (561-297-3512).		
4. Course prerequisites, corequisites, and where the course fits in the program of study			
Prerequisites: EOC 4804 (with a grade of C or above)			
5. Course logistics			
Term: Spring 2021			
This is a classroom with ZOON	1 live feed lecture course		
Class location and time: Tues	day: 10-11:50 am, Thursday (group meetings): 10 am-11:50 am		
at Se	eatech ST250 and via ZOOM		
Office hours: T-Th 8:30 am -10	o am (posted on instructor's door)		
6. Instructor contact informa	tion		
Instructor's name	Pierre-Philippe Beaujean		
Office address	Rm 225A (Seatech)		
Office Hours	TR 8:30 am – 10 am (Seatech)		
Contact telephone number	(954) 924-7051 (Seatech)		
Email address	pbeaujea@fau.edu		
7. IA contact information			
TA's name	N/A		
Office address			
Office Hours			
Contact telephone number			
Email address			
8. Course description			
Completion and execution of t	he system design project developed in previous EOC 4804 including detail		
design, final design fabricatior	, testing, evaluation, and reporting of results in written and oral form.		
This is a research-intensive (Pl			
	, couse.		
This course contains multiple as	signments designed to help students conduct research and inquiry at an		
<mark>intensive level. If this class is se</mark>	lected to participate in the university-wide assessment program, students		
will be asked to complete a con	will be asked to complete a consent form and submit electronically some of their research assignments for		
review. Visit the Office of Undergraduate Research and Inquiry (OURI) for additional opportunities and			
	rgraduate Research and Inquiry (OURI) for additional opportunities and		
information at http://www.fau.	rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri.		
information at http://www.fau. 9. Course objectives/student	rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes		
information at http://www.fau. 9. Course objectives/student Course objectives	rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process		
information at http://www.fau. 9. Course objectives/student Course objectives	rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, croativity, opgingering, design logic and		
information at http://www.fau. 9. Course objectives/student Course objectives	rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, creativity, engineering, design logic and communication		
information at http://www.fau. 9. Course objectives/student Course objectives	rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, creativity, engineering, design logic and communication.		
information at http://www.fau. 9. Course objectives/student Course objectives Student learning outcomes & relationship to ABET 1-7	rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, creativity, engineering, design logic and communication. • An ability to design a system that satisfies an ocean engineering related need (c/2)		
information at http://www.fau. 9. Course objectives/student Course objectives Student learning outcomes & relationship to ABET 1-7 objectives	 rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, creativity, engineering, design logic and communication. An ability to design a system that satisfies an ocean engineering related need (c/2) An ability to function in multidisciplinary design teams (d/c) 		
information at http://www.fau. 9. Course objectives/student Course objectives Student learning outcomes & relationship to ABET 1-7 objectives	 rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, creativity, engineering, design logic and communication. An ability to design a system that satisfies an ocean engineering related need (c/2) An ability to function in multidisciplinary design teams (d/5) An ability to communicate effectively during the progress review. 		
information at http://www.fau. 9. Course objectives/student Course objectives Student learning outcomes & relationship to ABET 1-7 objectives	 rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, creativity, engineering, design logic and communication. An ability to design a system that satisfies an ocean engineering related need (c/2) An ability to function in multidisciplinary design teams (d/5) An ability to communicate effectively during the progress review meetings and Einal Design Review (g/2) 		
information at http://www.fau. 9. Course objectives/student Course objectives Student learning outcomes & relationship to ABET 1-7 objectives	 rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, creativity, engineering, design logic and communication. An ability to design a system that satisfies an ocean engineering related need (c/2) An ability to function in multidisciplinary design teams (d/5) An ability to communicate effectively during the progress review meetings and Final Design Review (g/3) An understanding the potential economic environmental and 		
information at http://www.fau. 9. Course objectives/student Course objectives Student learning outcomes & relationship to ABET 1-7 objectives	 rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, creativity, engineering, design logic and communication. An ability to design a system that satisfies an ocean engineering related need (c/2) An ability to function in multidisciplinary design teams (d/5) An ability to communicate effectively during the progress review meetings and Final Design Review (g/3) An understanding the potential economic, environmental, and societal impacts of ocean engineering designs (h/a) 		
information at http://www.fau. 9. Course objectives/student Course objectives Student learning outcomes & relationship to ABET 1-7 objectives	 rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, creativity, engineering, design logic and communication. An ability to design a system that satisfies an ocean engineering related need (c/2) An ability to function in multidisciplinary design teams (d/5) An ability to communicate effectively during the progress review meetings and Final Design Review (g/3) An understanding the potential economic, environmental, and societal impacts of ocean engineering designs (h/4) A recognition of the need for self-study and life-long learning in 		
information at http://www.fau. 9. Course objectives/student Course objectives Student learning outcomes & relationship to ABET 1-7 objectives	 rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, creativity, engineering, design logic and communication. An ability to design a system that satisfies an ocean engineering related need (c/2) An ability to function in multidisciplinary design teams (d/5) An ability to communicate effectively during the progress review meetings and Final Design Review (g/3) An understanding the potential economic, environmental, and societal impacts of ocean engineering designs (h/4) A recognition of the need for self-study and life-long learning in engineering design (i/2) 		
information at http://www.fau. 9. Course objectives/student Course objectives Student learning outcomes & relationship to ABET 1-7 objectives	 rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, creativity, engineering, design logic and communication. An ability to design a system that satisfies an ocean engineering related need (c/2) An ability to function in multidisciplinary design teams (d/5) An ability to communicate effectively during the progress review meetings and Final Design Review (g/3) An understanding the potential economic, environmental, and societal impacts of ocean engineering designs (h/4) A recognition of the need for self-study and life-long learning in engineering design (i/7) An understanding of how contemporary issues affect engineering 		
information at http://www.fau. 9. Course objectives/student Course objectives Student learning outcomes & relationship to ABET 1-7 objectives	 rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, creativity, engineering, design logic and communication. An ability to design a system that satisfies an ocean engineering related need (c/2) An ability to function in multidisciplinary design teams (d/5) An ability to communicate effectively during the progress review meetings and Final Design Review (g/3) An understanding the potential economic, environmental, and societal impacts of ocean engineering designs (h/4) A recognition of the need for self-study and life-long learning in engineering design (i/7) An understanding of how contemporary issues affect engineering design (j/4) 		
information at http://www.fau. 9. Course objectives/student Course objectives Student learning outcomes & relationship to ABET 1-7 objectives	 rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, creativity, engineering, design logic and communication. An ability to design a system that satisfies an ocean engineering related need (c/2) An ability to function in multidisciplinary design teams (d/5) An ability to communicate effectively during the progress review meetings and Final Design Review (g/3) An understanding the potential economic, environmental, and societal impacts of ocean engineering designs (h/4) A recognition of the need for self-study and life-long learning in engineering design (i/7) An understanding of how contemporary issues affect engineering design (j/4) 		
information at http://www.fau. 9. Course objectives/student Course objectives Student learning outcomes & relationship to ABET 1-7 objectives 10. Course evaluation metho Project Grading:	 rgraduate Research and Inquiry (OURI) for additional opportunities and edu/ouri. learning outcomes/program outcomes To introduce students to engineering design and the design process through applied ocean related design projects. Emphasis shall be placed on professionalism, creativity, engineering, design logic and communication. An ability to design a system that satisfies an ocean engineering related need (c/2) An ability to function in multidisciplinary design teams (d/5) An ability to communicate effectively during the progress review meetings and Final Design Review (g/3) An understanding the potential economic, environmental, and societal impacts of ocean engineering designs (h/4) A recognition of the need for self-study and life-long learning in engineering design (i/7) An understanding of how contemporary issues affect engineering design (j/4) 		

 Documentation Skills (30pts) Test Plan Group Final Design Report Individual Electronic Engineering Logbook 	10pts 10pts 10pts	
 Public Speaking Skills (10pts) Group Final Design Presentation (instructor) Group Final Design Presentation (industry) 	5pts 5pts	
Teamwork Skills (20pts)Blind Peer EvaluationInstructor Evaluation	10pts 10pts	
 System Performance (30pts) Level I requirements Level II Requirements Level III Requirements 	20pts 5pts 5pts	
 Homework (10pts) Assignments related to the assigned project 		
 Peer & Instructor Evaluation Criteria Each student will be evaluated based on his/her attendance at and constructive participatio contribution to a fair share of the workload quality of work done completing work on time willingness to volunteer/accept tasks that n ability to arrange personal schedule to fulfil 	n in group discussions eed to be accomplished I commitments to the team	
<u>Electronic Engineering Log Book Criteria</u> Logbooks are organizational and tracking tools that are commonly used to create traceable and legal chronological written records of ones activities. Engineering Logbooks are very useful tools that not only help one remember ones activities, but they are also function to trace hours and personnel costs on different projects, as legal documents in inventions/intellectual property disputes and to prove proper engineering practice, as documentation for ISO certifications, as safety history, etc. For this course, each student is required to maintain individual logbook as well as an MS Excel track of his or her work. The logbook must conform to the following structure:		
 All entries must be recorded chronologically (5W's) Entries must outline all professional and technical activities such as: 		

- engineering tasks (design, calculations, testing, computer programming, etc)
 research tasks (literature reviews, patent searches, etc.)
- meetings (group, with clients, etc.)
- machining, construction, and assembly tasks
- testing and evaluation tasks.

The MS Excel spread sheet will be used to track your time working on this project. Time logs are essential in all industries where people work on multiple projects over a contiguous timeline. The MS Excel spread sheet must have the following columns:

- 1) date
- 2) task description
- 3) hours worked this period
- 4) project title
- 5) cumulative hours worked on project

Weekly Reports and Reviews

Every Tuesday, each project group and the Project Planning Team shall submit a short progress report (1-

2 pages) an done by a s among the	id an MS Project report to the course ins ingle student in a team. The responsibi team members throughout the semeste	structor. Preparation fe lity of writing the wee er.	or the reports must not be kly reports must be rotated
These repo determined semester. T better com secondary p need to sum	rts will be discussed in the class group during the first week of class). These w 'he primary purpose of the weekly review munication among the team members, purpose of the reviews is to provide feed marize the week's accomplishments, with	meeting (the specific to reekly reviews should co ws is to keep track of the teams, and the instru- back on teamwork perfor h a few sentences or bul	time of the meeting will be ontinue until the end of the he progress and to facilitate uctor and staff whereas the ormance. The weekly reports lets. This should include:
 Summa A list of Discuss Plan of Summa for any List of t 	ary of work performed and list of tasks acc planned tasks not accomplished and reas ion of any unresolved problems work for next week arize your progress towards the next mile discrepancies between actual progress an casks to be completed in the upcoming we s, problems or questions that need to be c	omplished ons why stone in your schedule. Id plan ek liscussed with the instru	This should include reasons
11. Course	grading scale		
А	> 90%	C+	65 - 69.9
A-	85 - 89.9	С	60 - 64.9
B+	80 - 84.9	C-	55 - 59.9
В	75 - 79.9	D	50 - 54.9
B-	70 - 74.9	F	< 50
12. Policy o	n makeup tests, late work, and incompl	etes	
Makeup tes	ts are given only if there is solid evidence	e of a medical or other	wise serious emergency that
prevented t	he student of participating in the exam. N	/lakeup exam should be	administered and proctored
by departm	ent personnel unless there are other pre-a	pproved arrangements	
Late work is	not acceptable.		
Incomplete g	<i>grades</i> are against the policy of the depart	ment. Unless there is so	lid evidence of medical or
otherwise s	erious emergency situation incomplete gr	ades will not be given.	
13. Special	course requirements		
• Projects	s are expected to achieve all six of the follov	ving OURI Student Learr	ning Outcomes (SLOs):
o	SLO 1: Knowledge. Students are expected	<mark>l to demonstrate content</mark>	<mark>t knowledge, and knowledge</mark>
	of core principles and skills.		
0	SLO 2: Formulate Questions. Students ar	e required to formulate re	esearch questions, scholarly
	or creative problems in a manner appropri	iate to the planning disci	pline.
0	SLO 3: Plan of Action. Students are expec	ted to develop and imple	ement a plan of action to
	address research and inquiry questions or scholarly problems.		
SLO 4: Critical Thinking, Students are expected to apply critical thinking skills to evaluate			
information, their own work, and the work of others.			
CLO = Ethical Conduct Students are consisted to identify in the state of the			
 SLU 5: Ethical Conduct. Students are expected to identify significant ethical issues in research 			
and inquiry and/or address them in practice.			
<u>0</u>	SLO 6: Communication. Students will con	ivey all aspects of their re	esearch and inquiry

(processes and/or products) in appropriate formats, venues, and delivery modes.		
OURI Student Learning Outcomes (SLO)	Description of Assignment Requirements and Assessments	
<mark>SLO 1:</mark> Knowledge	Students will demonstrate a fundamental basis of discipline-specific knowledge required for effective professional practice in the fields of computer and electrical engineering. Students will also demonstrate working knowledge of tools and practical skills needed to analyze engineering design problems related to multiple realistic constraints, such as environmental issues, engineering economics, design codes, ethics, and/or other contemporary design issues.	
SLO 2: Formulate Questions	Students will develop and refine a problem statement in which they specifically address their research questions. Students are expected to articulate the scope of the problem to be able to address the research question with an engineering solution. When appropriate, students should be able to create additional (albeit related) questions for smaller subsections of the overall design project.	
SLO 3: Plan of Action	Students will create a plan of action that will include the problem statement (or research question), scope of work, literature review and background context, methodology or approach to the solution, analysis plan, conclusion and design documents. Students will develop a hypothesis if needed, identify research methods and alternative designs, and select appropriate statistical techniques, if warranted.	
SLO 4: Critical Thinking	Students will demonstrate critical thinking skills by taking into consideration multiple perspectives and examining implications and consequences of design decisions or engineering alternatives. Students will also demonstrate an ability to use evidence and reasoning to objectively justify decisions and an ability to apply codes and design standards to make reasonable engineering judgments. Students are asked to peer review student work and provide feedback during the juried presentations.	
SLO 5: Ethical Conduct	Students will familiarize themselves with the Code of Ethics of their engineering discipline. All work is held to the standards established by the governing professional societies of ocean and mechanical engineering disciplines.	
SLO 6: Communication	Students will present and defend their work in written and oral formats (interim and final). All deliverables are expected to be of professional quality. Students are expected to demonstrate knowledge of technical report writing, graphical visualization, and persuasive presentation skills.	
14. Classroom etiq	uette policy	
University policy re-	quires that in order to enhance and maintain a productive atmosphere for education,	
15. Disability policy	v statement	
	the Americane with Disabilities Act Amendments Act (ADAAA) students who require	

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS)—in Boca Raton, SU 133 (561-297-3880); in Davie, LA 203 (954-236-1222); or in Jupiter, SR 110 (561-799-8585) —and follow all SAS procedures.

16. Honor code policy

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high-quality education in which no student enjoys unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a

system of mutual trust and place high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. See University Regulation 4.001 at www.fau.edu/regulations/chapter4/4.001_Code_of_Academic_Integrity.pdf

17. Counseling and Psychological Services Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to http://www.fau,edu/counseling/

18. Required texts/reading

Lecture notes provided by instructor.

19. Supplementary/recommended readings

20. Course topical outline, including dates for exams/quizzes, papers, completion of reading Topics:

- Basic navigation
- Basic dead reckoning method
- Basic Kalman filtering method
- Kalman filter implementation
- Sensor Error Characterization
- Basic control and implementation

Task	Due Date:
Test Plan	Jan. 28, 2021
Completion of Prototype System	Mar. 18, 2021
Factory Acceptance Test Report	Apr. 1, 2021
Final Design Report Drafts	Apr. 15
Presentation Drafts	Apr. 20
Final Presentations	Apr. 22
Final Design Reports Revision	Apr. 29, 2021
Exit Interview	Apr. 29, 2021 from 8:45 am – 10:15 am (90 min.)