

SuperUROP 2016-2017

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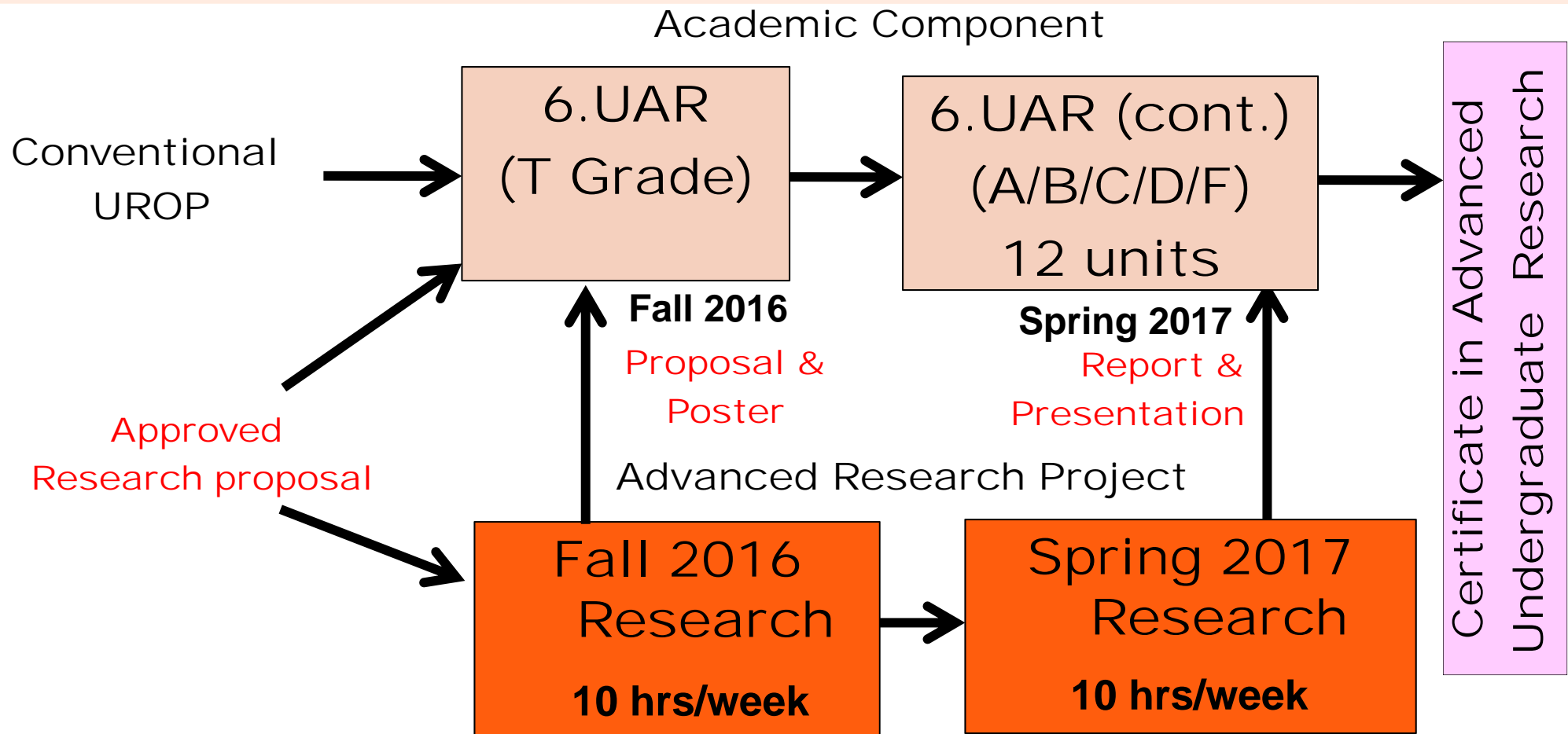


SuperUROP Overview

- A year-long UROP / research project for EECS juniors and seniors
- Exposure to technical communications through 6.UAR deliverables:
 - Poster presentation
 - Oral presentation
 - Journal-style paper
- Weekly lectures featuring guest speakers from academia and industry
- Serves as a launchpad to academia, research, industry, start-ups
- Students receive a named scholar (generously funded by gifts from industry and alumni) or they can take it for credit



Certificate in Advanced Undergraduate Research



- **Certificate in Advanced Undergraduate Research with focused areas will be awarded for completion of 6.UAR (12 units) plus advanced research project.**
- **For EECS Only:** 6.UAR (12 units) can be used to satisfy second EECS CI-M (which is normally satisfied with 6.UAP (6 units) + 6.UAT);
- Cannot be used to satisfy AA capstone requirement; Other departments : please check with your UG office.

6.UAR Goals

- How to select a research project and background research
- Learn about current research topics related to EECS including devices, circuits, information systems, bio-medical, AI, theory, systems
- Metrics used in the different fields
- Student Entrepreneurship
- Industry Design
- Ethics in engineering
- Industry strength design methodologies
- Writing a high quality research paper and conference/journal review process
- Giving an effective research presentation
- Help your research project

Fall 2016 6.UAR Deliverables

- 4 page **detailed** proposal due end of Oct. 2016 including:
 - Problem statement including previous work
 - Proposed technical approach and relation to previous work
 - Block diagram / architecture of the system you are building
 - Metrics including previous work
 - Expected outputs
 - Other goals: publication, demonstrating a system, etc.
 - Graded by writing department
- **Poster presentation** (problem definition, research progress) – **December 2016 (4-7pm)**
- **Grading** : completion of in-class assignments, written proposal and presentation at the poster session

Spring 2017 6.UAR Grading and Deliverables

- (1) Attending class and in-class assignments**
- (2) 8 page research paper with results (template to be posted)**
 - Preliminary paper with intro, background and technical approach (peer review) due April 1, 2017
 - Final paper due end of April 2017 (graded)
- (3) Attend three communication workshops (technical paper and giving a presentation)**
- (3) Describing your work to the public or EECSCon presentatio**
- (4) In-class technical presentation (60 secs per speaker) of your project results**

Access to Nanotechnology



- **SuperUROP students can access advanced Nanotechnology through the MTL Microsystems Technology Laboratories**
- **Access to advanced foundry technology**
- **Same access as graduate students!**

Schedule (2016-2017)

- **Approved supervisors to post research opportunities: Deadline: March 8, 2016**
 - **Format: paragraph and picture**
 - **Max of 3 students per supervisor**
 - **Contact Dorothy Curtis if you need technical help with the website**
- **Students apply (with approval from supervisor):**
 - **Intent (resume, transcript): April 6, 2016**
 - **Proposal deadline: April 15, 2016**
 - **Proposal is short (a figure and a couple of paragraphs)**
 - **Recommendation needed from the primary supervisor**
- **Announcements on funding for AY2017**
 - **June 15, 2016**

SuperUROP Team

Anantha Chandrakasan
(In Charge of 6.UAR)



Denny Freeman
(Dean for UG Education)



Jaime Peraire
(A/A Department
Head)



Agnes Chow
(EECS AO)



Joyce Light
(A/A SuperUROP
Liaison)



Dorothy Curtis
(EECS Data Officer)



Audrey Resutek
(EECS
Communications)



Ted Equi
(Industry
Coordinator)



SuperUROF Team (cont.)

Jarina Shrestha
(EECS Fiscal Officer)



Carol Niemi
(A/A Financial
Administrator)



Andreina Reyes
(Events Coordinator)



Kate Boison
(Resource Development)



- Other payroll staff listed later