# The Henry Samueli School of Engineering

# New Student Orientation
# 2011 - 2012

Presented by Meei-jiuan Shyu

Mitzi Orme

1

# Engineering Orientation Topics

- UCI Academic Structure
- Preparing for the Fall quarter
- Registering for classes
- Academic Requirements
- School of Engineering overview
- Engineering School Mission
- Academic Standards
- Policies and Procedures
- Study Schedule
- Research and UROP
- Internship and Career Center
- Demo

# UCI Academic Structure

- Arts
- Biological Sciences
- Business
- Engineering
- Humanities
- Information and Computer Sciences
- Physical Sciences
- Social Ecology
- Social Sciences
- Health Sciences

# Important Offices & Departments

- Admissions
- Financial Aid
- Registrar
- Housing
- Learning & Academic Resource Center

- Counseling Center
- Career Services
- Parking
- Disability Services
- Student Health

# Preparing for Fall Quarter

# Health Insurance

- Students are automatically enrolled in USHIP
- Students can "waive out" of the plan if they can demonstrate they have comparable coverage
  - Must apply online to waive out before Sep 1st.
    http://www.shc.uci.edu/Health_Insurance_Privacy/USHIP-StudentHealthCenter-UCI.aspx
    Waive out as early as possible, do not wait till the last day.

  - Complete details available at Student Health Center at: www.shc.uci.edu

# Paying tuition and fees

- Fee Deadline:  Sep. 15th, 4:30 p.m.
- If you have Financial Aid…
    - Aid is applied to fees automatically once you enroll in 6 minimum required units (MRU's)
    - Must enroll in 6 MRU's by fee deadline
- If you do not have Financial Aid…
    - Pay ZOTBill online
      https://zotaccount.uci.edu/
    - Contact the Registrar Office if you have questions. 949-824-6124

# You should have already…

- Sent ALL transcripts to Admissions
- Due Date:  July 15th
- Contact Admissions Office for questions about transcripts and Admission conditions
  [myadmissionsapplication@uci.edu](mailto:myadmissionsapplication@uci.edu)

# Before classes start in fall…

- Get your UC photo ID card
    - Go to UCItems with student ID number
- Set-up your UCInetID account
    - Provides access to WebReg, e-mail, etc.
    - Activate at any campus computer terminal
    - www.activate.uci.edu
    - Must use UCI e-mail for correspondence with campus officials –always include your full NAME and Student I.D. number in your email
    - Read your UCI emails daily and respond if necessary
- Update address with Registrar's Office
- Complete your Statement of Legal Residence
- Enroll in classes using WebReg

# Before classes begin…

- Welcome Week (Sep 19-21)
- New Student Convocation
  - Monday, Sep. 19, 9:00 a.m.
  - Aldrich Park
  - Deans Welcome (following New Student Convocation)
  - Anteater Club Fair & BBQ in Aldrich Park

# New Student Checklist for Transfers

https://portal.uci.edu/ChecklistPortlet/print?id=31&lang=en

# Instruction begins

- Thursday, September 22, 2010
- Labs and Discussions will start after the first lecture class.

# Registering For Classes in fall 2011

- **When to enroll**

  After attending the Engineering Transfer Orientation, your hold will be lifted. You may enroll next day.

- **Check course schedule on WebSOC**

  http://websoc.reg.uci.edu/perl/WebSoc

- **Enroll online by going to WebREG**

http://www.reg.uci.edu/registrar/soc/webreg.html

# Enrollment in WebReg

- Log on using UCInetID and password
- Transfer students may enroll the next day after attending the orientation. Your hold will be lifted and courses will be authorized.

- You may enroll 18 units for now. **18-unit enrollment limit (undergrad) will be lifted at noon on Sept 1.**
  See Academic Calendar
  http://www.reg.uci.edu/calendars/quarterly/2011-2012/quarterly11-12.html

- Major restrictions will be lifted after the Open Enrollment. Review and/or adjust your schedule if needed.

# Enrollment **after** Fall quarter

(winter 2012 and thereafter)

## Priority window

Check your priority enrollment window around seventh week of each quarter via WebReg

- Each student has an initial 48 hour priority window in which to enroll in classes via WebReg

- After the priority window is passed, enrollment via WebReg is available 7pm - 7am daily

# Enrollment Tips

- ***Enroll as soon as your window opens!!***
  - You will have a better selection of courses
  - The Schedule of classes is available at the sixth week of each quarter. Enrollment window starts at the eighth week in general.
  - If the class is full, use waitlists when available.
  - If you took the prerequisites from another school, you need to clear the prerequisites before enrolling the class. Contact Student Affairs Office for authorization 949-824-4334 OR email your counselor.
- Check frequently for course changes and/or cancellations

# Enrollment Tips (cont'd)

- Refer to the finals schedule to prevent overload during finals week

- Refer to COMMENTS in WebSOC for additional enrollment information. For example, policy for repeats, priority enrollment, the date of lifting restrictions, etc.
  http://websoc.reg.uci.edu/perl/WebSoc

- Registration HOLDS
  - If you have a hold, contact the office that placed the hold on your record for resolution

# Academic Requirements

- University of California Requirements
- UCI Requirements

Incoming transfer students
follow 2010-2011 catalog for
Academic Requirements
http://www.editor.uci.edu/10-11/

# University of California Requirements

- Entry Level Writing Requirement
- American History and Institutions

# University of California Requirements

***To meet Entry Level Writing Requirement:***

- Pass UC Analytical Writing placement exam

*Requirement is already met if you:*

- Scored 3, 4 or 5 on either AP English exam
- Scored 680 or higher on SAT II Writing Test
- Scored 5 or higher on International Baccalaureate's Higher-Level English A exam
- Completed college-level English Composition course prior to entering UCI

# University of California Requirements

*To meet American History & Institutions Requirement:*

- Complete 2 UCI courses:
  US Government (Political Science 21A) &
  US History (Hist 40A or Hist 40B or Hist 40C);  OR
- Complete 3 UCI courses:
  Hist 40A, Hist 40B, Hist 40C

*Requirement is already met if you:*

- Completed 1 year of high school US History; OR
- Completed 1 high school semester each of US History and US Government; OR
- Scored of 3, 4 or 5 on AP US History
- Scored 550 or better on SAT II American History
- Completion of requirement at another CA institution

# UC Irvine Requirements

- Complete a <u>minimum</u> of 180 quarter units
- 2.0 GPA*
  - In all University of California courses
  - In all Engineering courses required for your major
  - In all upper division Engineering courses required for your major
- Residency Requirement
  - 36 of last 45 units earned must be from UCI

*courses for the Engineering major must be taken with 'letter grade'.
Courses for the general education may be taken with 'pass/no pass'

# UC Irvine Requirements

- General Education requirements

- School Requirements

- Major Requirements

# General Education Requirements

I        Writing (2 lower division courses and 1 upper division course)

II       Science and Technology

III      Social and Behavioral Sciences (3 courses)

IV      Arts and Humanities (3 courses)

V       Quantitative, Symbolic and Reasoning

VI     Language Other Than English

VII    Multicultural Studies (1 course)

VIII   International/Global Issues (1 course)

** You may take any general education courses with pass/no pass option except ENGR 190W (for ChE, MSE, EE,CpE CIVIL majors)

    ** Category II, V will be satisfied by math, physics and chemistry.

# I. Writing Requirement

- Lower Division: 2 courses
  - Must be completed before the beginning of the 7th quarter, "C" or better
  - Writing 37 and 39C          OR
  - Writing 39B and 39C
  - Students with a "B" or better in 37 or 39B can opt to take Writing 30, 31, or 38 instead of 39C*
  - *This option does not apply to students in Campuswide Honors Program.

# I. Writing Requirement

- **Upper Division:  1 course**
  Complete one upper division approved Writing course with a "W" suffix with grade C or better.

  Chemical, Computer, Electrical, Materials Science Engineering, Civil Engineering majors, *are required to take Engr 190W as Engineering Professional Topics.  Engr 190W also satisfies upper division writing.*

  *Computer Science Engineering majors have to take CSE 181CW for major requirement, CSE 181CW also satisfies upper div writing.*

  *Biomedical Engineering: Premed majors have to take Bio Sci 100 which will count as an upper division writing class if you have C or better grades with three upper division Bio Sci Labs.*

  All other majors may take any upper division writing.

# IGETC

- If you completed General Education from the community college or other university, you do not need to read the following general education requirements. Skip page 28 to page 34.

- Whoever completed IGETC (General Education) and have not turned in the IGETC certificate, please submit the certificate to Engineering Student Affairs Office in fall quarter 2011 OR give it to your counselor at the Individual Advising in fall quarter.

# II. Science and Technology

- Must complete a 3 course from one of the following areas:
  - Biological Sciences
  - Chemistry
  - Earth System Science
  - Physics
  - Social Ecology

Engineering students will meet this requirement while completing your program of study.

# III. Social & Behavioral Sciences

## Must complete 3 courses

- Anthropology
- Economics
- Geography
- Interdisciplinary
- Linguistics

- Political Science
- Psychology
- Social Ecology
- Sociology

# IV. Humanistic Inquiry

- Must complete a 3 course
  - Arts
  - Humanities
  - Interdisciplinary
  - Literature

# V. Mathematics and Symbolic Systems

- Must complete a 3 course from the following areas:
    - Anthropology
    - Economics
    - Information and Computer Sciences
    - Philosophy
    - Social Sciences
    - Statistics

  Engineering students will meet this requirement while completing your program of study.

# VI. Language other than English

- Can be satisfied by:
  - 3 years of HS study in same language
  - Score of 3, 4 or 5 on AP Exam in a language other than English
  - Score 570 or better on SAT II in a language
  - Approved course of study in an EAP Program
  - Completing a UCI "1C" language course
  - One year of formal schooling at the sixth grade level in an institution where the language of instruction is not English

# VII. Multicultural Studies

( Must complete 1 course from the approved list)

# VIII. International/Global

( Must complete 1 course from the approved list )

Some general education courses may count for two categories, you may refer to catalog for this information or come to Engineering Student Affairs Office for the list of courses that double count.

# School Requirements

- School of Engineering (HSSoE)
  - 48 units of college-level mathematics and basic science.
  - 72 units of engineering topics courses
  - engineering design units

    (Design unit values are indicated at the end of each course description in the catalog)

# The Henry Samueli School of Engineering

Founded in 1965, The Henry Samueli School of Engineering is one of the nation's fastest growing engineering schools.

# HSSoE Majors

- Aerospace
- Biomedical*
- Biomedical:  premed
- Chemical
- Civil
- Computer

- Computer Science **
- Electrical
- Environmental
- Materials Science*
- Mechanical

Two minors are offered in Biomedical Engineering and Materials Science Engineering

*minor is offered
**joint program w/ICS

36

# BME: Premed

- Unlike other engineering majors, BME: Premed is not accredited. Since the program objective is to prepare students for medical school and does not have enough Engineering courses to be accredited.
- If your goal is to apply medical school, then BME: premed is the right major. You may also apply graduate school and medical related fields. If your goal is to become an Engineer, then the regular BME is the right major for you.
- Refer this website for Health Science Advising
  http://students.bio.uci.edu/advising.html
  See Bio Sci counselor for health science advising 949-824-5318
- Take Bio Sci 3A for health profession information.

# Engineering School Mission

*Our mission is to educate students, at all levels, to be the best engineers and leaders in the nation and world by engaging them in a stimulating community dedicated to the discovery of knowledge, creation of new technologies, and service to society.*
-- By former Dean Rafael Bras

# Becoming an Engineer

- Engineers apply the principles of science and mathematics to develop and delivers consumer goods, builds the networks of highways, air and rail travel, and the internet, mass produced antibiotics, creates artificial heart valves, builds lasers, and offers such wonders an imaging technology and conveniences like microwave ovens and compact discs. In short, engineers make over quality of life possible.

- Engineers should have a spirit of pride and responsibility in the engineering profession.

- Engineering School prepares you for a wide variety of fields, but you need to identify your end goal so that you can properly prepare… both in and out of class.

# Becoming an Engineer

*In addition to your academic program, you are encouraged to involve with the following activities if time is permitted.*

*Be Proactive, work hard and get involved is the key to success.*

- Research
  http://www.urop.uci.edu/

- Internship
  http://www.career.uci.edu/

- Student organization
  http://esc.eng.uci.edu/
  http://www.asuci.uci.edu/

# How to have research

- Find and study about the area of research of a professor http://www.eng.uci.edu/
- Contact the professor.
- Obtain the Proposal form for Individual Study from Engineering Student Affairs Office (REC 305).
- Bring the approved form back to our office to be authorized for enrollment.
- Enroll Individual Study class (like BME 199, EECS 199, CBEMS 199). You may find those courses on the Schedule of Classes.
- For EE major, 3.0 GPA is required to apply research.

# Career Center workshops and events

- Job Search Strategies
- Resume Writing Workshop
- Interview Techniques
- Career Fair
- Pre-Law Advising
- Engineering Career Fair by Engineering Student Council in February

# *The Obligation of the Engineer*

*As an engineer, I should practice integrity and fair dealing, tolerance, and respect, and to uphold devotion to the standards and the dignity of my profession, conscious always that my skill carries with it the obligation to serve humanity by making the best use of Earth's precious wealth. As an engineer, I shall participate in non but honest enterprises. When needed, my skill and knowledge shall be given without reservation for the public good. In the performance of duty and in fidelity to my profession, I shall give the utmost.*

# Policies and Procedures

# Catalogue Rights

- Students enrolled at UCI from their freshman year may elect to meet as graduation requirements
  - Those requirements in effect at the time of entrance; or
  - Those subsequently established catalog year
- Complete policy in catalogue

2011 incoming transfers should select 2010-2011 catalog year for your benefit  http://www.editor.uci.edu/10-11/

# University of California Policy Confidentiality

*By law, the Engineering Student Affairs Office and other UCI officials may not release any student information to ANYONE without written consent from the student.*

# Confidentiality continued…

*What does this policy mean to you?*

- Students MUST be the point of contact with any campus official
- Information that CANNOT be released:
  - Grades
  - Class Schedule
  - Academic status
- Release form for engineering students

  The above information will not be released unless you sign the Release Form.

# Add/Drop/Change Deadlines for Engineering courses

- DROPPING a course
  - Friday of the 2nd week of the quarter
- ADDING a course
  - Friday of the 3rd week of the quarter
- Change of grade option
  - Friday of the 6th week of the quarter
    No grade change will be allowed after 6th week.

Any requests after these deadlines need to petition online through Enrollment Exception on Student Access. If you have hardship, please petition early. Do not wait till the 6th week. Approval will be granted only under extenuating circumstances .

# Grades

- ## Letter Grades:  A, B, C, D, F
  - All Engineering, Math, Physics and Chemistry courses and any courses required for the major must be taken for a letter grade
  - If you do not fail the class (F grade), you pass the course.

- ## Pass/Not Pass Grades:  P or NP
  - Does not affect GPA
  - General education courses can be taken Pass/Not Pass
  - C or better will be Pass (P), C- or lower grade will be Not Pass (NP)

- ## Repeating Classes
  - You may repeat courses only when grades of C-,D+,D, D-,F, or NP were received, otherwise an UR (Unauthorized Repeat) notation will be posted on your transcript.
  - Up to 16 unit of repeats can be replaced for GPA
  - Following that, course grades are averaged

# Academic Standards

### Normal Progress

Students that fail to make normal progress will be placed on academic probation or may be subject to disqualification.

# Not making Normal Progress

- Failure to complete UC Entry Level writing requirement before beginning of 4th quarter.
- Failure to complete lower division Writing Requirement by beginning of 7th quarter
- Failure to complete 12 units in any given quarter
- Failure to maintain a 2.0 GPA in
  - All coursework
  - All Engineering coursework
  - All upper division Engineering coursework

51

# Academic Probation (AP)

- Academic Probation
  - GPA below 2.0 (quarterly, in ENGR courses, in upper division ENGR courses, or cumulatively)
- Subject to Disqualification
  - GPA below 1.5
  - GPA below 2.0 for 2 consecutive quarters
- The 1.5 Rule (Freshman Engineering)
  - GPA below 1.5 in Fall or Winter quarter of first year will be subject to disqualification from the School of Engineering

# Academic Honesty

- Be academically honest
- Consequences can range from
  - a failing grade
  - dismissal from the University
- Complete policy listed in Catalogue

# Undergraduate Engineering website

http://undergraduate.eng.uci.edu/

Student Handbook
Degree Programs*
UCI Resources
Announcements
Course outline
Teaching Plan
Policies and Procedures

* Technical electives, science electives for some majors are listed under Degree Programs.

# Academic Framework

- Engineering coursework is built upon a foundation of math and science
- Interdependency of knowledge
  - prerequisites and corequisites
- Emphasis on retaining knowledge
- ***Study to learn, not to pass the class.***

# Average GPA in Engineering
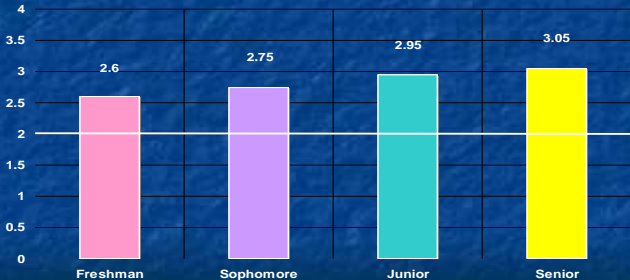
Student Retention
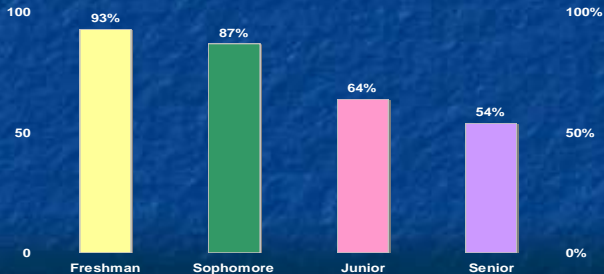
# Academic Resources



- LARC

- CODE

- Departmental Tutoring

# The Learning and Academic Resource Center (LARC)

- Campus wide academic assistance program in Math, Science, Writing, Study Strategies, Critical Reading, etc.
- Offers a variety of learning models
  - Tutorials
  - Workshops
  - Classes
  - Individual counseling

http://www.larc.uci.edu/

# Center for Opportunities and Diversity in Engineering (CODE)

- Free Tutoring for all engineering students in engineering courses and their prerequisites
  - One-on-One tutoring
  - Located in REC 201
  - http://www.eng.uci.edu/undergrad/code/tutoring

- Professional Development and Research Opportunities

  http://www.eng.uci.edu/undergrad/code

# Departmental Tutoring

- Several academic departments on campus like Math, Physics and Chemistry, may offer free tutoring.

- Tutoring schedules can be found on the department website.

# Study Schedule

Let's explore the weekly schedule of your average Engineering student…

# Study Schedule

| | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|---|
| 8:00 | | Physics 7E Lecture | | Physics 7E Lecture | | Physics 7E Lecture | |
| 9:00 | | | | | Phys 7E Discussion | | |
| 10:00 | | | | | | | |
| 11:00 | | | | | Phys 52A Lab | | |
| 12:00 | | | | | | | |
| 1:00 | | | | | | | |
| 2:00 | | | | | | | |
| 3:00 | | | | | | | |
| 4:00 | | | | | | | |
| 5:00 | | | | | | | |
| 6:00 | | | | | | | |
| 7:00 | | | | | | | |
| 8:00 | | | | | | | |
| | | | | | | | |

# Study Schedule

| | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|---|
| 8:00 | | Physics 7E Lecture | | Physics 7E Lecture | | Physics 7E Lecture | |
| 9:00 | | | | | Physics 7E Discussion | | |
| 10:00 | | | | | | | |
| 11:00 | | | | | Phys 52A Lab | | |
| 12:00 | | | | | | | |
| 1:00 | | | | | | | |
| 2:00 | | Math 2J Lecture | | Math 2J Lecture | | Math 2J Lecture | |
| 3:00 | | | | | | | |
| 4:00 | | | Math 2J Discussion | | Math 2J Discussion | | |
| 5:00 | | | | | | | |
| 6:00 | | | | | | | |
| 7:00 | | | | | | | |
| 8:00 | | | | | | | |

# Study Schedule

| | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|---|
| 8:00 | | Physics 7E Lecture | | Physics 7E Lecture | | Physics 7E Lecture | |
| 9:00 | | | | | Physics 7E Discussion | | |
| 10:00 | | | | | | | |
| 11:00 | | EECS 31 Discussion | | | Phys 52A Lab | | |
| 12:00 | | | | | | | |
| 1:00 | | | | | | | |
| 2:00 | | Math 2J Lecture | | Math 2J Lecture | | Math 2J Lecture | |
| 3:00 | | | | | | | |
| 4:00 | | | Math 2J Discussion | | Math 2J Discussion | | |
| 5:00 | | | | | | | |
| 6:00 | | | | | | | |
| 7:00 | | | EECS 31 Lecture | | EECS 31 Lecture | | |
| 8:00 | | | | | | | |

# Study Schedule

| | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|---|
| 8:00 | | Physics 7E Lecture | breakfast | Physics 7E Lecture | breakfast | Physics 7E Lecture | |
| 9:00 | | | | | Physics 7E Discussion | | |
| 10:00 | | | | | | | |
| 11:00 | | EECS 31 Discussion | | | Phys 52A Lab | | |
| 12:00 | lunch | lunch | lunch | lunch | | lunch | lunch |
| 1:00 | | | | | | | |
| 2:00 | | Math 2J Lecture | | Math 2J Lecture | lunch | Math 2J Lecture | |
| 3:00 | | | | | | | |
| 4:00 | | | Math 2J Discussion | | Math 2J Discussion | | |
| 5:00 | dinner | dinner | dinner | dinner | dinner | dinner | dinner |
| 6:00 | | | | | | | |
| 7:00 | | | EECS 31 Lecture | | EECS 31 Lecture | | |
| 8:00 | | | | | | | |

# The light blue area may be your possible study time

| | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|---|
| 8:00 | | Physics 7E Lecture | breakfst | Physics 7E Lecture | breakfst | Physics 7E Lecture | |
| 9:00 | | | | | Physics 7E Discussion | | |
| 10:00 | | | | | | | |
| 11:00 | | EECS 31 Discussion | | | Phys 52A Lab | | |
| 12:00 | lunch | lunch | lunch | lunch | | lunch | lunch |
| 1:00 | | | | | | | |
| 2:00 | | Math 2J Lecture | | Math 2J Lecture | lunch | Math 2J Lecture | |
| 3:00 | | | | | | | |
| 4:00 | | | Math 2J Discussion | | Math 2J Discussion | | |
| 5:00 | dinner | dinner | dinner | dinner | dinner | dinner | dinner |
| 6:00 | | | | | | | |
| 7:00 | | EECS 31 Lecture | | | EECS 31 Lecture | | |
| 8:00 | | | | | | | |

# Strategies For Success

- Identify your best time of day to study
- Study in groups
- Avoid distractions
- Treat school as a full-time job
- Utilize resources:  LARC, CODE tutoring
- Go to office hours to ask questions, do not get behind.
- Be realistic about the amount of work you can get done in a given period.  We suggest you study 3 hours per week for any one unit you enroll.

# Notes from 2011 commencement speaker

- Complete your task on time.

- Failure is not a disaster.

- Journey and process are the most reward.

# HSSoE Student Affairs

- Contacting the Office
  - Telephone: (949) 824-4334
  - Website: http://undergraduate.eng.uci.edu/
- Location
  - Rockwell Engineering Center REC 305 (311 on UCI map)
- Office Hours
  - Monday - Friday
    8:30 a.m. - 12:00 p.m. &
    1:00 p.m. - 4:30 p.m.

Meeting with an Academic Counselor in Engineering Undergraduate Student Affairs at least once a year is strongly recommended.

# Counselors for Undergraduate Student Affairs Office

- **Mitzi Orme** (MITZI.ORME@UCI.EDU)

  Aerospace, Mechanical, Materials Science

- **Christy King** (CLKING@UCI.EDU)
  Chemical, Civil, Computer Science Engineering, Environmental

- **Meei-jiuan Shyu** (MSHYU@UCI.EDU)
  Biomedical, Biomedical Premed, Computer Engineering, Electrical

# Individual Advising

- In fall 2011 or winter 2012 Call 949-824-4334 to make an appointment to see your counselor to plan your degree programs and update your DegreeWorks.
- If you have IGETC or Partial IGETC, bring the certificate for your counselor to update your DegreeWorks.
- Check DegreeWorks on STUDENT ACCESS for your program requirements and updates.

http://www.reg.uci.edu/access/student/welcome/

# Faculty Advising

- All students are required to attend Faculty Advising* session once a year
  - done by faculty
  - required for accreditation
- You will get email notification regarding the date and time
- Failure to attend will result in a hold for following term enrollment

  * Faculty Advising is not the same as meeting your academic counselors.

# Demo

You may find links to the following website from
http://www.reg.uci.edu

- **Schedule of Classes**
- **WebReg** (register for classes)
- **Student Access** (You can view your unofficial transcripts and DegreeWorks, or apply graduation, change of major and enrollment exceptions)

# Admission Condition

- If you have admission condition and did not meet your condition, your admission may be revoked.
- Please contact your admission counselor regarding your admission status as soon as possible.

# Welcome to UCI and The Henry Samueli School of Engineering!

# Have a great summer!

## See you in fall quarter!