

## Chairs' & Center Directors' Meeting Minutes

**Date:** March 17, 2014 (12:00 to 2:00 pm)

**Location:** WCH – Room 443

**Attendees:** Abbaschian, Reza  
Aguilar, Guillermo  
Bhuyan, Laxmi  
Farrell, Jay  
Garay, Javier  
Hartney, Pat  
Matsumoto, Mark  
Myung, Nosang  
Najjar, Walid  
Ravi  
Rodgers, Victor

**Absent:** Balandin, Alex  
Barth, Matt  
Bhanu, Bir  
Boretz, Mitch  
Haddon, Robert  
Tan, Sheldon  
Vafai, Kambiz  
Wang, Albert

The agenda for the meeting is shown in Appendix 1.

### 1. Welcome and call for agenda items - Reza

Reza stated that the main purpose of today's Chairs and Program Leaders meeting is to hear presentations of the various methods that departments and programs use to assign TAs to courses

Reza noted that Winston Chung visited BCOE on Sunday, March 9<sup>th</sup>, and was given a tour of BCOE labs and CE-CERT. Presentations were made on the research projects funded by Winston. Overall, Winston was pleased with the presentations and tours. He plans to attend the May 21<sup>st</sup> New Grid Project ribbon-cutting ceremony at CE-CERT. Lastly, Winston is interested in establishing a battery manufacturing facility in California. Reza will try to convince him of the advantages of building such a facility in the Inland Empire.

### 2. Approval of Minutes - Pat

The minutes of the March 3<sup>rd</sup> Chairs/Directors meeting were unanimously approved.

### 3. Faculty Recruitment Updates – Chairs

CEE: Nosang reported that Bryan Wong has accepted an Assistant Professor offer and will start in July. He had been at Sandia for five years and at Drexel for one year. His research area is computational materials. Also, the department is working with EE on a Target of Excellence senior candidate. This candidate is expected to visit campus in May. Lastly, the department expects to hear from Harvey Blanch in the next 1-2 weeks.

MSE: Javier stated that there is a shortage of fume hoods (and wet lab space) which will limit BCOE's ability to provide suitable labs for new hires. Reza responded that he recently met with the EVC/P and that space planning is now under the new VC for Business and Administration. Reza has requested use of vacant wet labs in Pierce Hall but CNAS is also interested in these labs.

CSE: Laxmi reported that about half of the faculty candidates have visited campus. A preliminary offer has been made to a senior candidate.

CEN: Walid reported that a meeting has been scheduled for Wednesday to discuss the two CEN candidates.

EE: Jay indicated that the last faculty candidate is visiting today. He expects that offers will be made soon.

ME: Guillermo stated that the department is in discussions with a couple of candidates. One candidate needs at least one fume hood (which is in shortage in BCOE).

#### **4. TA Allocation Procedure - Chairs**

BIEN: Victor presented a Powerpoint slide that showed that BIEN provides TA resources to about 11 courses per quarter. The department offers about 38 courses per quarter so about one-third of BIEN courses receive TA support. TAs are allocated to core lab courses first. No TAs are allocated to grad courses.

CEE: Nosang reported that CEE used all of its TA and UCOP GSR allocations to support its TA needs. Courses with enrollments of 100 or more receive a .25 FTE TA plus .125 FTE grader. Courses with 40 - 99 students receive a .25 FTE TA. Courses with 20 - 39 students receive a grader. No TAs or graders are provided for courses with enrollments less than 20. First year PhD students are supported with central fellowships and a one-quarter TAsip.

CSE: Laxmi reported that all CSE courses have labs. Previously, CSE courses were limited to 30 students per section. This limit has been raised to 45 students per section. A .5 FTE TA is provided for lower division courses with enrollments of 105+ and upper division courses with enrollments of 90+. Also, TAs are provided for grad courses with enrollments of 30 or more. CSE uses all of its TA and UCOP resources and other funding as available. All CSE PhD students receive a full central fellowship for their first year which allows them to start working with their faculty mentors during the first year.

EE: Jay presented a Powerpoint slide that presented EE's spreadsheet methodology for assigning TAs to courses. The department assigns TAs based on a calculation of TA hours needed per course. Only EE courses with enrollments greater than 15 are eligible for TAs. The calculation includes the numbers of lab hours, discussion hours, lab prep hours, office hours and lab and homework grading hours. This calculation is rounded to the percent TA needed for each course. The spreadsheet also presents the TA cost per course.

ME: Guillermo provided a Powerpoint presentation on ME's TA selection process. In general, one .25 FTE TA is assigned to each discussion section with enrollments greater than 45. Students indicate their availability for TA positions via a TA preference form. The ME Grad Advisor assigns TAs to courses based on history of TAs assigned to those courses, enrollment projections and numbers of discussion and lab sections.

MSE: Javier stated that MSE provides TA funding to faculty teaching MSE courses upon request. There are currently only three MSE undergraduate courses.

Reza thanked Chairs and Program Leaders for their presentations and hoped that this exchange of information was useful. In that regard, Jay offered to send a copy of EE's TA calculation spreadsheet to the Chairs and Program Leaders.

It was noted that the campus uses undergraduate workload FTE as the primary indicator of TA FTE needs. BCOE could increase its undergrad workload FTE by encouraging its students to take more than the minimum 12 units per quarter. An engineering student needs to take an average of 15 units per quarter to graduate in four years. Ravi added that the new BCOE course planning tool should be available in April.

#### **5. Graduate Education – Mark**

Due to time constraints, this topic was postponed to the next Chairs/Directors meeting.

#### **6. Undergraduate Education - Ravi**

Due to time constraints, this topic was postponed to the next Chairs/Directors meeting.

#### **7. Other Matters**

Ravi thanked BCOE departments and programs for participating in the successful March 8<sup>th</sup> Scholarship event at UCR.



# Chairs' & Center Directors' Meeting

March 17, 2014

## Agenda

Winston Chung Hall – Room 443

- |    |                                                   |        |
|----|---------------------------------------------------|--------|
| 1. | Welcome - Request for Agenda Items from the Floor | Reza   |
| 2. | Approval of Minutes from March 3, 2014 Meeting    | Pat    |
| 3. | Faculty Recruitment Updates                       | Chairs |
| 4. | TA Allocations Procedure                          | Chairs |
| 5. | Graduate Education                                | Mark   |
| 6. | Undergraduate Education                           | Ravi   |
| 7. | Other Matters                                     |        |

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## Future Meeting Dates

### 2013

~~Monday, August 5~~  
~~Monday, September 9~~  
~~Friday, September 27~~  
~~Friday, October 11~~  
~~Monday, October 21~~  
~~Friday, November 15~~  
~~Monday, December 2~~  
~~Monday, December 16~~

### 2014

~~Friday, January 10~~  
~~Monday, January 27~~  
~~Monday, February 10~~  
~~Friday, February 21~~  
~~Monday, March 3~~  
~~Monday, March 17~~  
~~Monday, March 31~~  
~~Monday, April 14~~  
~~Monday, April 28~~  
~~Monday, May 12~~  
~~Friday, May 30~~  
~~Monday, June 9~~  
~~Monday, June 23~~  
~~Monday, July 7~~

| TA Supported Courses                                            | TA %   | Course Enrollment  | Student FTE per TA | Fall 2013 | Winter 2014 | Spring 2013* | Comments                    |
|-----------------------------------------------------------------|--------|--------------------|--------------------|-----------|-------------|--------------|-----------------------------|
| <b>Undergraduate Courses</b>                                    |        |                    |                    |           |             |              |                             |
| <b>Lower Division</b>                                           |        |                    |                    |           |             |              |                             |
| BIEN 001: Intro Colloquium in Bioeng                            |        |                    | 50                 |           |             |              | Anticipated for Fall 2014   |
| BIEN 010: Overview of Bioeng                                    |        |                    | 50                 |           |             |              | Anticipated for Fall 2014   |
| <b>Upper Division</b>                                           |        |                    |                    |           |             |              |                             |
| BIEN 101: Quantitative Biochemistry                             |        |                    | 70                 |           |             |              | Anticipated for Fall 2014   |
| BIEN 105: Circulation Physiology                                | 25% TA |                    | 73                 | 292       | 73          |              |                             |
| BIEN 110: Biomechanics of the Human Body                        |        |                    | 49                 | 196       | 49          |              |                             |
| BIEN 115: Quantitative Physiology                               | 25% TA |                    | 84                 | 336       |             | 84           |                             |
| BIEN 120: Biosystems and Signal Analysis                        | 25% TA |                    | 83                 | 332       |             | 83           |                             |
| BIEN 125: Biotechnology and Molecular Bioengineering            | 25% TA |                    | 68                 | 272       | 68          |              |                             |
| BIEN 130: Biinstrumentation                                     | 25% TA |                    | 81                 | 324       |             | 81           |                             |
| BIEN 130L: Biinstrumentation Lab                                | 25% TA |                    | 82                 | 328       |             | 82           |                             |
| BIEN 135: Biophysics and Biothermodynamics                      | 25% TA |                    | 84                 | 336       | 84          |              |                             |
| BIEN 155: Biotechnology                                         |        |                    | 79                 | 316       | 79          |              |                             |
| BIEN 175A: Senior Design                                        | 25% TA |                    | 78                 | 312       | 78          |              |                             |
| BIEN 175B: Senior Design                                        | 25% TA |                    | 52                 | 208       |             | 52           |                             |
| BIEN 175C: Senior Design                                        | 25% TA |                    | 52                 | 208       |             |              | Anticipated for 2014 - 2015 |
| <b>Technical Electives</b>                                      |        |                    |                    |           |             |              |                             |
| BIEN 136: Tissue Engineering                                    |        |                    | #VALUE!            |           |             |              |                             |
| BIEN 137: Advance Biomechanics                                  |        |                    | 16                 | 64        |             | 16           |                             |
| BIEN 138: Fundamental Principles of Wound Repair                |        |                    | 49                 | 196       | 49          |              |                             |
| BIEN 140A: Biomaterials                                         | 25% TA |                    | 49                 | 196       | 49          |              |                             |
| BIEN 140B: Biomaterials                                         | 25% TA |                    | 69                 | 276       | 69          |              |                             |
| BIEN 142: Introductory Biomedical Optical Imaging               | 25% TA |                    | 43                 | 172       | 43          |              |                             |
| BIEN 149: Dynamics of Biological                                |        |                    | 40                 |           |             |              | Anticipated for 2014 - 2015 |
| BIEN 160: Biomedical Imaging                                    |        |                    | 86                 | 344       | 86          |              |                             |
| BIEN 165: Biomolecular Engineering                              |        |                    | 39                 |           |             | 39           |                             |
| BIEN 166: Bioinspired Engineering for Sustainable Energy        |        |                    | 44                 |           |             | 44           |                             |
| BIEN 167: Medical Diagnostics                                   |        |                    | 45                 |           | 45          |              |                             |
|                                                                 |        |                    | 40                 |           |             |              | Anticipated for 2014 - 2015 |
|                                                                 |        |                    | #VALUE!            |           |             |              |                             |
| <b>Graduate Courses</b>                                         |        |                    |                    |           |             |              |                             |
| BIEN 201: Mathematical Methods for Bioengineering               | TA %   | Course Enrollment: |                    | Fall 2013 | Winter 2014 | Spring 2013* |                             |
| BIEN 220: Chemical Genomics Design Studio                       |        | 15                 |                    | 15        |             |              |                             |
| BIEN 223: Engineering Analysis of Physiological Systems         |        | 0                  |                    |           |             |              |                             |
| BIEN 224: Cellular and Molecular Engineering                    |        | 31                 |                    | 21        |             |              |                             |
| BIEN 227: Biophotonics Laser Tissue                             |        | 60                 |                    | 30        |             | 30           |                             |
| BIEN 228: Biophotonics Optical Diagnosis                        |        | 30                 |                    |           |             |              | Anticipated for 2014 - 2015 |
| BIEN 233: Computational Modeling of Biomolecules                |        | 0                  |                    |           |             |              | Anticipated for 2014 - 2015 |
| BIEN 234: Orthopedic Regenerative Engineering & Mech            |        | 4                  |                    | 4         |             |              |                             |
| BIEN 235: Vascular Biomechanics and Eng                         |        | 12                 |                    | 12        |             |              |                             |
| BIEN 236: Nanomaterials for Regenerative Medicine               |        | 30                 |                    |           |             |              | Anticipated for 2014 - 2015 |
| BIEN 237: Medical Diagnostics                                   |        | 30                 |                    |           |             |              | Anticipated for 2014 - 2015 |
| BIEN 242: Advanced Biomedical Optical Imaging                   |        | 14                 |                    |           | 14          |              |                             |
| BIEN 245: Optical Methods in Biology Chemistry and Eng          |        | 31                 |                    |           |             | 31           |                             |
| BIEN 249: Integration of Computational and Experimental Biology |        | 30                 |                    |           | 35          |              | Anticipated for 2014 - 2015 |
| BIEN 251: Biophotonics Optical Microscopy                       |        | 30                 |                    |           |             |              | Anticipated for 2014 - 2015 |
| BIEN 264: Biotransport Phenomena                                |        | 23                 |                    |           |             | 23           |                             |
| BIEN 270: Transport w/ Reactions                                |        | 0                  |                    |           |             |              |                             |
| BIEN 271: Multi scale Analysis for Video Bioinformatics         |        | 6                  |                    |           |             | 6            |                             |
| <b>Course Summary</b>                                           |        |                    |                    |           |             |              |                             |
| Total TA Supported Courses for 2014-2015                        |        | 31                 |                    |           |             |              |                             |
| % of Courses with TA Support                                    |        | 27                 |                    |           |             |              |                             |

## TEACHING ASSISTANT SELECTION PROCEEDURES

### OVERVIEW:

1. \* Confirm obligations in financial charts using BANNER report, ABE and student financial chart documents
2. \* Create a pool of applicants by requesting submissions from students/PI's.
3. \* Applicants must submit "TA preference form", which details their eligibility, TA history, research advisor approval, SPEAK test, TADP training, etc.
4. Grad Assistant generates two detailed spreadsheets
  - A. Projections (# of TAs per class)
  - B. Specific TA's assignment to courses & cost analysis.
5. \* The Graduate Advisor analyzes the data and assigns TAs based on the projections, history of TA's assigned to the same class, current enrollment, and number of DIS/LAB sections.

# TEACHING ASSISTANT SELECTION PROCEDURES

- TA Preference Form

| QUESTION                                                                                         | ANSWER  |
|--------------------------------------------------------------------------------------------------|---------|
| What is your GPA?                                                                                | 3.6     |
| Have you taken the SPEAK test? (international students or students born outside of the USA only) |         |
| Did you receive approval from your Advisor to TA?                                                | pending |
| Will you be on an internship status for fall quarter?                                            | no      |
| Have you taken the TA training through the TADP department?                                      | yes     |
| Which courses have you been a TA for in the Past?                                                |         |
| Is there anything preventing you from being a TA or receiving employment from UCR?               | no      |

FALL 2013

[illegible]

MECHANICAL ENGINEERING DEPARTMENT

FALL 2013

| Course #      | Course Name        | Instructor | 27-Aug     | 23-Aug | Date | Max<br>Cap<br>(Aug 22) | Max<br>Capacity<br>(?) | %Full as Seats<br>of 7/31 Left | DIS          | LAB |
|---------------|--------------------|------------|------------|--------|------|------------------------|------------------------|--------------------------------|--------------|-----|
| <b>ME004</b>  | Energy and Env     | Vafai      | 41         |        |      | 198                    | 198                    | 21%                            | 3            | 0   |
| <b>ME018</b>  | Intro to Engr Comp | Franco     | 104        |        |      | 104                    | 104                    | 100%                           | 0            | 5   |
| <b>ME100A</b> | Thermo             | Mangolini  | 96         |        |      | 96                     | 96                     | 100%                           | 2            | 0   |
| <b>ME103</b>  | Dynamics           | Xu         | 97         |        |      | 119                    | 119                    | 82%                            | 2            | 0   |
| <b>ME114</b>  | Intro to MSE       | Garay      | 116        |        |      | 116                    | 116                    | 100%                           | 2            | 0   |
| <b>ME122</b>  | Vibrations         | Kumar      | 15         |        |      | 50                     | 50                     | 30%                            | 1            | 0   |
| <b>ME135</b>  | Transport Pheno    | Venkatram  | 127        |        |      | 140                    | 140                    | 91%                            | 2            | 0   |
| <b>ME136</b>  | Env Impacts        | Jung       | 9          |        |      | 40                     | 40                     | 23%                            | 1            | 0   |
| <b>ME156</b>  | Mech Beh of Mat    | Rao        | 30         |        |      | 30                     | 30                     | 100%                           | 1            | 0   |
| <b>ME170b</b> | Exp techniques     | V Sundar   | 117        |        |      | 145                    | 145                    | 81%                            | 0            | 5   |
| <b>ME175a</b> | Prof Topics        | Stahovich  | 122        |        |      | 129                    | 129                    | 0.945736                       | 0            | 0   |
| <b>ME175b</b> | ME Design          | Sawyer     | 32         |        |      | 69                     | 69                     | 46%                            | 0            | 3   |
| <b>ME176</b>  | Sustainable Des    | V Sundar   | 17         |        |      | 50                     | 50                     | 0.34                           | 1            | 0   |
|               |                    |            | <b>923</b> |        |      | <b>1286</b>            |                        |                                | <b>Total</b> |     |

MECHANICAL ENGINEERING DEPARTMENT

| #TA's<br>assigned<br>last AY | 25%<br>TAs        |    | Suggest<br>ed High | Actual     | (Current<br>Enroll) /<br>(Sugg.<br>Low) |             |          | (Current<br>Enroll) /<br>(Sugg.<br>Med) |          |      | (Current<br>Enroll) /<br>(Sugg.<br>High) | Actual | 11.5     |          |          |          |
|------------------------------|-------------------|----|--------------------|------------|-----------------------------------------|-------------|----------|-----------------------------------------|----------|------|------------------------------------------|--------|----------|----------|----------|----------|
|                              | Suggest<br>ed Low |    |                    |            |                                         |             |          |                                         | Low      | Med  |                                          |        | High     | Actual   |          |          |
|                              | 0.5               | 1  | 1.5                |            | 82                                      | 41          | 27.33333 | #DIV/0!                                 |          |      |                                          |        | -5.85366 | -7.31707 | -8.78049 | -4.39024 |
| 4                            | 2.5               | 3  | 3.5                |            | 41.6                                    | 34.66666667 | 29.71429 | #DIV/0!                                 |          |      |                                          |        | -11.5385 | -12.1154 | -12.6923 | -8.65385 |
| 1.5                          | 2.5               | 3  | 3.5                |            | 38.4                                    | 32          | 27.42857 | #DIV/0!                                 |          |      |                                          |        | -4.375   | -5       | -5.625   | -1.25    |
| 1.99                         | 2.5               | 3  | 3.5                |            | 38.8                                    | 32.33333333 | 27.71429 | #DIV/0!                                 |          |      |                                          |        | -4.3299  | -4.94845 | -5.56701 | -1.23711 |
| 2.99                         | 3.5               | 4  | 4.5                |            | 33.1428571                              | 29          | 25.77778 | #DIV/0!                                 |          |      |                                          |        | -4.65517 | -5.17241 | -5.68966 | -1.03448 |
|                              | 0.5               | 1  | 1.5                |            | 30                                      | 15          | 10       | #DIV/0!                                 |          |      |                                          |        | -8       | -12      | -16      | -4       |
| 1.5                          | 3.5               | 4  | 4.5                |            |                                         |             |          | #DIV/0!                                 |          |      |                                          |        | -4.25197 | -4.72441 | -5.19685 | -0.94488 |
| 0.5                          | -0.5              | 0  | 0.5                |            | 0                                       | 0           | 0        | #DIV/0!                                 |          |      |                                          |        | 0        | -6.66667 | -13.3333 | 0        |
| 0.99                         | 0.5               | 1  | 1.5                |            | 60                                      | 30          | 20       | #DIV/0!                                 |          |      |                                          |        | -4       | -6       | -8       | -2       |
| 4                            | 3.5               | 4  | 4.5                |            | 33.4285714                              | 29.25       | 26       | #DIV/0!                                 |          |      |                                          |        | -11.2821 | -11.7949 | -12.3077 | -7.69231 |
| 1.5                          | 3.5               | 4  | 4.5                |            | 34.8571429                              | 30.5        | 27.11111 | #DIV/0!                                 |          |      |                                          |        | -3.44262 | -3.93443 | -4.42623 | 0        |
| 0.5                          | 0.5               | 1  | 1.5                |            |                                         | 32          |          | #DIV/0!                                 |          |      |                                          |        | -18.75   | -20.625  | -22.5    | -16.875  |
| 0.5                          | 0.5               | 1  | 1.5                |            | 34                                      | 17          | 11.33333 | #DIV/0!                                 |          |      |                                          |        | -7.05882 | -10.5882 | -14.1176 | -3.52941 |
| 19.97                        | 23.5              | 30 | 36.5               | 0 Averages | 38.7                                    | 26.9        | 21.1     | #DIV/0!                                 | Averages | -6.7 | -8.5                                     | -10.3  | -4.0     |          |          |          |

# TEACHING ASSISTANT SELECTION PROCEDURES

| Max Enr. | Current Enrollment Numbers (Dec 9, 2013) |
|----------|------------------------------------------|
| 1        | 1                                        |
| 2        | 2                                        |
| 3        | 3                                        |
| 4        | 4                                        |
| 5        | 5                                        |
| 6        | 6                                        |
| 7        | 7                                        |
| 8        | 8                                        |
| 9        | 9                                        |
| 10       | 10                                       |
| 11       | 11                                       |
| 12       | 12                                       |
| 13       | 13                                       |
| 14       | 14                                       |
| 15       | 15                                       |
| 16       | 16                                       |
| 17       | 17                                       |
| 18       | 18                                       |
| 19       | 19                                       |
| 20       | 20                                       |
| 21       | 21                                       |
| 22       | 22                                       |
| 23       | 23                                       |
| 24       | 24                                       |
| 25       | 25                                       |
| 26       | 26                                       |
| 27       | 27                                       |
| 28       | 28                                       |
| 29       | 29                                       |
| 30       | 30                                       |
| 31       | 31                                       |
| 32       | 32                                       |
| 33       | 33                                       |
| 34       | 34                                       |
| 35       | 35                                       |
| 36       | 36                                       |
| 37       | 37                                       |
| 38       | 38                                       |
| 39       | 39                                       |
| 40       | 40                                       |
| 41       | 41                                       |
| 42       | 42                                       |
| 43       | 43                                       |
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| 45       | 45                                       |
| 46       | 46                                       |
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| 88       | 88                                       |
| 89       | 89                                       |
| 90       | 90                                       |
| 91       | 91                                       |
| 92       | 92                                       |
| 93       | 93                                       |
| 94       | 94                                       |
| 95       | 95                                       |
| 96       | 96                                       |
| 97       | 97                                       |
| 98       | 98                                       |
| 99       | 99                                       |
| 100      | 100                                      |

[illegible]

| Current Enrollment Numbers (Dec 9, 2013)         |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
|--------------------------------------------------|-------------|-----------|------------|-----------|------------|-------------|-----------|-------------|-------------|-----------|--------|-------|--|--|--|--|--|
| LAB sections                                     |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| Last Name                                        |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
|                                                  | 150         | 143       | 63         | 146       | 120        | 39          | 139       | 178         | 50          | 90        | 35     | 62    |  |  |  |  |  |
|                                                  | 107         | 122       | 63         | 135       | 110        | 12          | 131       | 123         | 50          | 86        | 34     | 62    |  |  |  |  |  |
|                                                  | ME 2        | ME10      | ME1008     | ME110     | ME113      | ME116B      | ME118     | ME120       | ME133       | ME175B    | ME175C | 2     |  |  |  |  |  |
|                                                  | PRINCEVAC   | STAHOVICH | MANGOLINI  | KUMAR     | VAFAI      | DINSMORE    | VENKATRAM | FRANCO      | PASQUALETTI | SUNDAR    | SAWYER | OZKAN |  |  |  |  |  |
|                                                  | Degree      | Advisor   | Degree     |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 1 Banks, Darren                                  |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 2 Castro, Carlos (25/24% in chart)               |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 3 Chan, Kyle (MSE)                               |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 4 Darnestani, Yasaman (BIEN)                     |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 5 Favors, Zach (MSE)                             |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 6 George, Aaron (MSE)                            |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 7 Hosseini Bay, Hamed                            |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 8 Li, Yang (50% in chart)                        |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 9 Omodan, Sunday (50% in chart)                  |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 10 Quezada, Ana Laura (BIEN)                     |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 11 Redenius, Jon                                 |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 12 Smith, Desiree                                |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 13 Tavakkoli, Fatemeh                            |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 14 Tran, John (50% in chart)                     |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 15 Wang, Shaocheng (25/24% in chart)             |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 16 Wang, Shujuan                                 |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 17 Yue, Jian                                     |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 18 Ung, Matthew 25% in chart; Tom asking for 50% |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 19 Shachar, Meir (MSE)                           |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 20 Said                                          |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 21 Alawara, Cynthia                              |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| TOTALS                                           | 2           | 3         | 1          | 2.96      | 1.92       |             | 2.46      | 2.96        | 2           |           |        |       |  |  |  |  |  |
| Last year's TA's (13W)                           | 1.96        | 2.5       |            | 2.96      | 1.46       |             | 2.5       | 3           |             |           |        |       |  |  |  |  |  |
| Difference                                       | 0.04        | 0.5       | 1          | 0         | 0.46       |             | -0.04     | -0.04       | 2           |           |        |       |  |  |  |  |  |
| 2 = 50%                                          |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 1 = 25%                                          |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 5 = 12.5                                         |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 5 hr                                             |             |           |            |           |            |             |           |             |             |           |        |       |  |  |  |  |  |
| 53.5                                             | 40.66666667 | 63        | 45.6081081 | 57.291667 | 53.2503252 | 41.55405405 | 25        | 28.66666667 | 34          | 41.333333 |        |       |  |  |  |  |  |

MECHANICAL ENGINEERING DEPARTMENT

Max Enr.  
Current Enrollment Numbers (Dec 9, 2013)

DJS sections  
LAB sections

| Last Name                                        | Advisor     | Degree |
|--------------------------------------------------|-------------|--------|
| 1 Banks, Darren                                  | Aguilar     | PHD    |
| 2 Castro, Carlos (25/24% in chart)               | Tsutsui     | PHD    |
| 3 Chan, Kyle (MSE)                               | Garay       | Ms     |
| 4 Darnestani, Yasaman (BIEN)                     | Aguilar     | PHD    |
| 5 Favors, Zach (MSE)                             | Ozkan       |        |
| 6 George, Aaron (MSE)                            | Ozkan       |        |
| 7 Hosseini Bay, Hamed                            | Ozkan       | PHD    |
| 8 Li, Yang (50% in chart)                        | Jung        | PHD    |
| 9 Omodan, Sunday (50% in chart)                  | Princevac   | MS     |
| 10 Quezada, Ana Laura (BIEN)                     | Vafai       | PHD    |
| 11 Redenius, Jon                                 | Aguilar     | MS     |
| 12 Smith, Desiree                                | Jung        | MS     |
| 13 Tavakkoli, Fatemeh                            | Vafai       | PHD    |
| 14 Tran, John (50% in chart)                     | Pasqualetti | MS     |
| 15 Wang, Shaocheng (25/24% in chart)             | Ren (EE)    | PHD    |
| 16 Wang, Shujuan                                 | Vafai       | PHD    |
| 17 Yue, Jian                                     | Xu          | PHD    |
| 18 Ung, Matthew 25% in chart; Tom asking for 50% | Stahovich   | PHD    |
| 19 Shachar, Meir (MSE)                           | Garay       | PHD    |
| 20 Said                                          | Venky       |        |
| 21 Ajawara, Cynthia                              | Aguilar     | MS     |

| TOTALS     | Last year's TA's (13W) |
|------------|------------------------|
| Difference |                        |
| 2 = 50%    | 20 hr                  |
| 1 = 25%    | 10 hr                  |
| .5 = 12.5  | 5 hr                   |

| TA 100% salary | TA Appmt | % of time | Salary | ME Amount  | PFR/GSHIP | GSR | % of time | Salary | Advisor Amount | PFR/GSHIP | Fund Source |
|----------------|----------|-----------|--------|------------|-----------|-----|-----------|--------|----------------|-----------|-------------|
| 4933           |          |           |        | \$1,961.67 |           |     |           |        |                | \$4,933   |             |
| 1              | 1        | 25.00%    | 2,942  | 2,942      | 2,467     |     |           |        |                |           |             |
| 1              | 1        | 25.00%    | 2,942  | 2,942      | 2,565     |     |           |        |                |           |             |
| 0.96           |          | 24.00%    | 2,825  |            | 0         |     |           |        | 2,443          | 2,368     | Tsutsui     |
| 2              | 2        | 50.00%    | 5,885  | 5,885      | 4,933     |     |           |        |                |           |             |
| 1              | 1        | 25.00%    | 2,942  | 2,942      | 2,467     |     |           |        |                |           |             |
| 1              | 1        | 25.00%    | 2,942  | 2,942      | 2,467     |     |           |        |                |           |             |
| 1.5            |          | 37.50%    | 4,414  | 4,414      | 3,700     |     |           |        |                |           |             |
| 2              | 2        | 50.00%    | 5,885  | 5,885      | 4,933     |     |           |        |                |           |             |
| 2              | 2        | 50.00%    | 5,885  | 5,885      | 4,933     |     |           |        |                |           |             |
| 0.5            |          | 12.50%    | 1,471  | 1,471      | 0         |     |           |        |                |           |             |
| 0.5            |          | 12.50%    | 1,471  | 1,471      | 0         |     |           |        |                |           |             |
| 0.5            |          | 12.50%    | 1,471  | 1,471      | 0         |     |           |        |                |           |             |
| 0.96           |          | 24.00%    | 2,825  | 2,825      | 0         |     |           |        |                |           |             |
| 2              | 2        | 50.00%    | 5,885  | 5,885      | 4,933     |     |           |        |                |           |             |
| 1              | 1        | 25.00%    | 2,942  | 2,942      | 2,467     |     |           |        | 2,443          | 1,233     | Wang        |
| 0.96           |          | 24.00%    | 2,825  | 2,825      | 0         |     |           |        |                |           |             |
| 0.5            |          | 12.50%    | 1,471  | 1,471      | 0         |     |           |        |                |           |             |
| 2              | 2        | 50.00%    | 5,885  | 5,885      | 4,933     |     |           |        |                |           |             |
| 1              | 1        | 25.00%    | 2,942  | 2,942      | 2,467     |     |           |        |                |           |             |
| 0.96           |          | 24.00%    | 2,825  | 2,825      | 0         |     |           |        |                |           |             |
| 0.96           |          | 24.00%    | 2,825  | 2,825      | 0         |     |           |        |                |           |             |
| 23.8           |          | 0.00%     | 0      | 0          | 0         |     |           |        |                |           |             |
| 16.88          |          |           | 71,503 | 71,503     |           |     |           |        |                |           |             |
| 6.92           |          |           |        |            |           |     |           |        |                |           |             |

Target Amount

Actual  
Qtrly Allocation 85,333 100,000  
TA Cost: {114,765} {114,765}  
With ?? Tas: {29,432} {14,765}

114,765

4,886 3,601