

ENGINEERING STUDENT FORUM

Presented by Dean Manos Maragakis

April 16, 2019



College of Engineering

Differential Fees Defined

Removed all course and laboratory fees for 300-, 400-, 600- and 700- level courses

- Added \$85 per credit for all 300- and 400- level courses
- Added \$100 per credit for all 600- and 700- level courses



DIFFERENTIAL FEES CENTRAL FUND

FACULTY COMMITTEE 2018/2019



ELIE HAJJ
Committee Chair
CEE



George Bebis
CSE



BIN LI
CME



XIAOSHAN ZHU
EBME



YANYAO JIANG
ME



FACULTY SUB-COMMITTEE: CENTRAL FUND

- Comprised of five faculty members; one faculty member to represent each department.
- Appointments are for one academic year with two renewals possible.
- Faculty members chosen by the Chair of each of the five College of Engineering departments.



DIFFERENTIAL FEE CENTRAL COMMITTEE: STUDENT MEMBERS

Candice Bauer serves as Chair



Logan
Carlson - CSE



Garrett Van
Mourik - EBME



Connor Scully-
Allison - Graduate
Students



Moriah
Munyan -CME



Thomas Bacon
- ME



Savannah
Hughes - CEE



STUDENT COMMITTEE: CENTRAL FUND

You can get involved!

- Five undergraduate students; and one graduate student.
- Appointments for one academic year.
- Students self-nominate in Fall! Then elected by student body in general election.



DEPARTMENT COMMITTEES

- Departments also receive differential fee funds and have separate differential fee committees:
 - CEE
 - CME
 - EBME
 - CSE
 - ME
- Department committees are comprised of faculty and students.
- Please see your Department Chair if you would like to get involved on a department level!



FUNDS AVAILABLE FY 2019: \$2,923,516*

- Central Fund - \$1,354,860
- Civil & Environmental dept.- \$264,625
- Chemical & Materials Science dept.- \$144,072
- Computer Science dept.- \$347,608
- Electrical & Biomedical dept.- \$108,887
- Mechanical dept.- \$286,464
- Scholarship - \$417,000

*as April 2019



CENTRAL FUND

Differential Spending FY19 as of April 2019

descriptions	dollars
FY 19 Revenue + FY 18 carry-over	\$1,354,860
Professional, Classified and LOA Salaries	\$439,991
Graduate Student Salaries	\$52,689
Wages	\$86,953
Fringe	\$127,135
General Operations & Equipment	\$560,915
Funds remaining to be spent	\$87,177



CIVIL & ENVIRONMENTAL ENGINEERING

Differential Spending FY19 as of April 2019

description	dollars
Total FY19 Revenue + FY18 Carry-over	\$264,625
Professional, Classified, & LOA Salaries	\$13,362
Graduate Student Salaries	\$65,000
Wages	\$11,896
Fringe	\$20,911
General Operations & Equipment	\$117,088
Travel	\$4800
Funds remaining to be spent	\$31,568



CHEMICAL & MATERIALS ENGINEERING

Differential Spending FY19 as of April 2019

description	dollars
FY 19 Revenue + FY 18 carry-over	\$144,072
Professional, Classified and LOA Salaries	\$31,362
Graduate Student Salaries	\$7,125
Fringe	\$5,011
General Operations & Equipment	\$19,165
Funds remaining to be spent	\$81,409



COMPUTER SCIENCE & ENGINEERING

Differential Spending FY19 as of April 2019

Descriptions	dollars
FY 19 Revenue + FY 18 carry-over	\$347,608
Professional, Classified and LOA Salaries	\$48,826
Graduate Student Salaries	\$69,953
Wages	\$19,424
Fringe	\$29,636
General Operations & Equipment	\$65,829
Transfers to Faculty Start up funds	\$90,000
Funds remaining to be spent	\$23,940



ELECTRICAL & BIOMEDICAL ENGINEERING

Differential Spending FY19 as of April 2019

descriptions	dollars
FY 19 Revenue + FY 18 carry-over	\$108,887
Professional, Classified and LOA Salaries	\$35,212
Fringe	\$9,187
General Operations & Equipment	\$57,062
Funds remaining to be spent	\$7,426



MECHANICAL ENGINEERING

Differential Spending FY19 as of April 2019

Descriptions	dollars
FY 19 Revenue + FY 18 carry-over	\$286,464
Professional, Classified and LOA Salaries	\$143,141
Graduate Student Salaries	\$421
Wages	\$28,582
Fringe	\$37,676
General Operations & Equipment	\$51,465
Funds remaining to be spent	\$25,179



ENGINEERING TUTORING CENTER

\$91,523 Allocated to the Tutoring Center
Since August 2018, we have had **1388** visits
from **282** students. Since October 2013, we
have had **12,560** visits from **2,479**
students. We have **15** tutors, **1** manager and
4 staff working the front desk with over **80**
courses available for tutoring.
WebCampus/Canvas presence in Engineering
Student Resources.



Hours of Operation:

Monday through Thursday: 8:30am to 7:00pm

Friday: 8:30am to 5:30pm

Location: EJCH 108H



ENGINEERING LEADERSHIP COUNCIL (ELC)

- \$75,000 allocated to ELC for Student Club Support for the next 3 years.
- ELC is made up of 26 clubs
 - Supplemental funding source
 - Clubs submit formal request with invoice quotes
 - Engineering Leadership Council (ELC) votes to approve or deny requests (yes, denials happen)
 - *Most requests for professional conference attendance and competition. Rest of monies are spent for club events & recruitment*



BREAKDOWN OF ELC CLUBS RECEIVING FUNDING

Description	Club	dollars
American Institute of Aeronautics and Astronautics (AIAA)	Aerospace	6884
American Institute of Chemical Engineers (AIChE)	Chemical	3210.59
American Nuclear Society (ANS)	Chemical	6817.84
American Society of Civil Engineers (ASCE)	Civil	1691.4
American Society of Mechanical Engineers (ASME)	Mechanical	0
Association for Computing Machinery (ACM)	Computer Science	5400.13
BioMedical Engineering Society (BMES)	Chemical	290
Concrete Canoe (CANOE)	Civil	8638.51
Electrical Engineering Grad Student Club (EE-GSC)	Electrical	0
Engineering Leadership Council (ELC)	-	1098.59
Geowall	Civil	2075.48
Human Powered Vehicle Team (HPVT)	Mechanical	7534.66
Institute of Electrical and Electronics Engineers (IEEE)	Electrical	4086



BREAKDOWN OF ELC CLUBS RECEIVING FUNDING CONTINUED

Description	club	dollar
John Mackay Club (JMC)	Mining	\$2325.48
Mackay Muckers	Mining	\$0.00
Nevada Cyber Club (cyber)	Multi Disciplinary	\$0.00
N-SATT	Aerospace	\$231.43
Pi Sigma Rho (PSR)	Professional	\$1733.80
Pi Tau Sigma (PTS)	Professional	\$747.84
Robotics & Electronics Clubs (REC)	Electrical	\$4474.15
Society of Women Engineers (SWE)	Professional	\$445.20
Steel Bridge	Civil	\$6519.10
University of Nevada Rocketry Society (ROCKETRY)	Aerospace	\$2406.91
Water Treatment (H2O TX)	Civil	\$2212.26
Wolf Pack Racing (WPR)	Mechanical	\$3711.03
Women Into Computer Science and Engineering (WISCE)	Computer Science	\$2465.60
Sum		\$75,000.00

COLLEGE OF ENGINEERING CAREER SERVICES



Joe Bozsik

Director of Career
Services

\$81,540 allocated to career services.

One-on-One Career Advising|Career Workshops & Presentation.

Résumé reviews, practice interviews, job search skills and guidance

Fall & Spring College of Engineering Internship & Career Fairs each September and February

College of Engineering Online Job Board

We maintain an engineering and computer science only internship and job board where you can find many opportunities



College of Engineering

COLLEGE OF ENGINEERING WEB AND MARKETING



Kirstin Swagman
Web Communications

\$90,717 allocated (50% from Central Fund and 50% from all departments)

Websites

20 total Engineering websites in University's content management system.
2 new sites in 2018-2019; maintenance on approximately 1,000 pages
Support for personal faculty websites on WolfWeb and PackPages
Launched redesigned College of Engineering, Computer Science & Engineering websites. More redesigns coming over the rest of 2019.

Marketing Communications

Nevada Engineering Magazine
NevadaToday news stories/press releases for research & College accomplishments;
published online and social media promotion
E-Newsletters for the College and departments
Graphic design & event promotion supporting College programs and events,
including Innovation Day, Spring Celebration, K-12 Outreach and Recruitment
Digital advertising campaigns for recruitment and select events such as Innovation
Day, Summer Camps



COLLEGE OF ENGINEERING ADVISING CENTER



Syreeta Williams
Academic Advisor



Etzal Corona Padilla
LOA

\$91,382 allocated to academic advising center.

Includes:

- Academic Advisor Syreeta Williams
- Student wages
- Office support
- LOA Etzal Corona Padilla



COLLEGE OF ENGINEERING TECHNICAL EDITOR



Joanna Trieger
Technical Editor

- \$77,894 allocated (50% from Central Fund and 50% from departments)
- Why a technical editor?
 - Better proposals → More research funding → More opportunities for student involvement in research
- **Editing:** Increases likelihood of research proposals getting funded by improving readability and strength of argument
 - 67 distinct proposals edited during 2018
 - **Funded proposals:** Edited proposals that received funding include \$1m engineering education proposal to NSF, \$500k+ electrical engineering proposal to NSF, \$300k+ civil engineering proposal to NDOT, \$175k computer engineering proposal to NSF, and many others
- **Skills development:** Improves faculty proposals through writing workshops
 - Five workshops developed in 2018, including one delivered to students during Research Experience for Undergraduates session



GRADUATE RESEARCH ASSISTANTSHIPS FOR DOCTORAL STUDENTS

- \$65,000 allocated
- Five departments received one-year research assistantships:
 - Civil & Environmental – Hamed Hasani
 - Computer Science & Engineering – Tim Mott
 - Electrical & Biomedical – Soeib Heydari
 - Mechanical – Siavash Sharifi
- Recruit highly qualified doctoral candidates allowing for an increase in research production, course offerings and program reputation.



EQUIPMENT AND OPERATING EXPENSES

Description	dollars
ENGR 301 Student Assistants	\$18,000
ENGR 691/ENGR 301 course supplies	\$5,000
International Student Exchange Support	\$8,000
ENGR 100 course supplies/resources	\$10,000
Transfer Central Fund to Department ENGR 360/701	\$35,000
Faculty cybersecurity zone	\$59,400
Upgrade to undergrad teaching lab (Dr. Pagilla)	\$15,000
CHE teaching lab (Dr. Kvistik)	\$34,000
Computer Aided Manufacturing (Dr. Wang)	\$33,534
COMSOL Multiphysics Software (Dr. El Zaklit)	\$9,080



EQUIPMENT AND OPERATING EXPENSES CONTINUED

Description	dollars
Expanding Robotics (Drs. La, Louis, Nicolescu, Feil-Seifer)	\$35,000
Asphalt Materials Evaluation System	\$20,000
High Performance Computing (Zach Newell)	\$30,000
3D Printer Fiber Reinforced Composites (Dr. Fan)	\$6,749
Interdisciplinary Traffic Env. (Drs. Xu & Alexis)	\$63,301
Wind Tunnel Force Balance (Dr. Mustafa & Seth Draper)	\$7,250
Welding table for manufacturing lab (Nick Maus)	\$10,500
Equipment ME 322 Lab (Dr. Mustafa Nacer)	\$9,700
Equipment ME undergrad labs (Dr. Ramachandran)	\$10,800
BME Teaching Lab	\$52,874
New Faculty Training Workshop	\$8,000

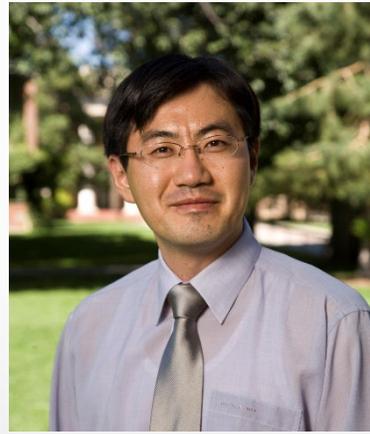


PROFESSORS PARTIALLY OR FULLY FUNDED BY DIFFERENTIAL FEES



Mike Kivistik

CME



Jihwan Yoon

EBME



Nick Tsoulfanidis

CME - Nuclear Expert



LECTURERS PARTIALLY OR FULLY FUNDED BY DIFFERENTIAL FEES



Kelly Doyle
ENGR Lecturer



Angelina Padilla
ME Lecturer



Rahul Ramachandran
ME Lecturer



Thank You!



College of Engineering