

Master of Science in Biomedical Engineering

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Welcome



Please feel free to stop me
and ask questions at any time



Do you know the way to San Jose?

- **Location:** Heart of Silicon Valley
- **Population:** 1 million – 10th largest city in the USA
- **Climate:** arguably the best in the world
- **Diversity:** outstanding
- **Technologically:** most vibrant place on earth
 - More than 1,100 biomedical companies in Bay Area – large, medium & start-ups
 - More than 600 in manufacturing
- **Amenities**
 - Beach: 45 minutes
 - Mountains: 30 minutes

Self-Introductions



- Name
- Undergraduate degree: Major, University
- Country of origin
- Native language
- Full-time or part-time student
- Current job/internship (if any)

University Structure



- 7 Colleges
 - Departments within each college
 - Degree programs in each department
- College of Engineering
 - 10 Departments
 - 13 Degree Programs
- Department: administrative unit
- Program: academic discipline in which degree is awarded

BS Biomedical Engineering

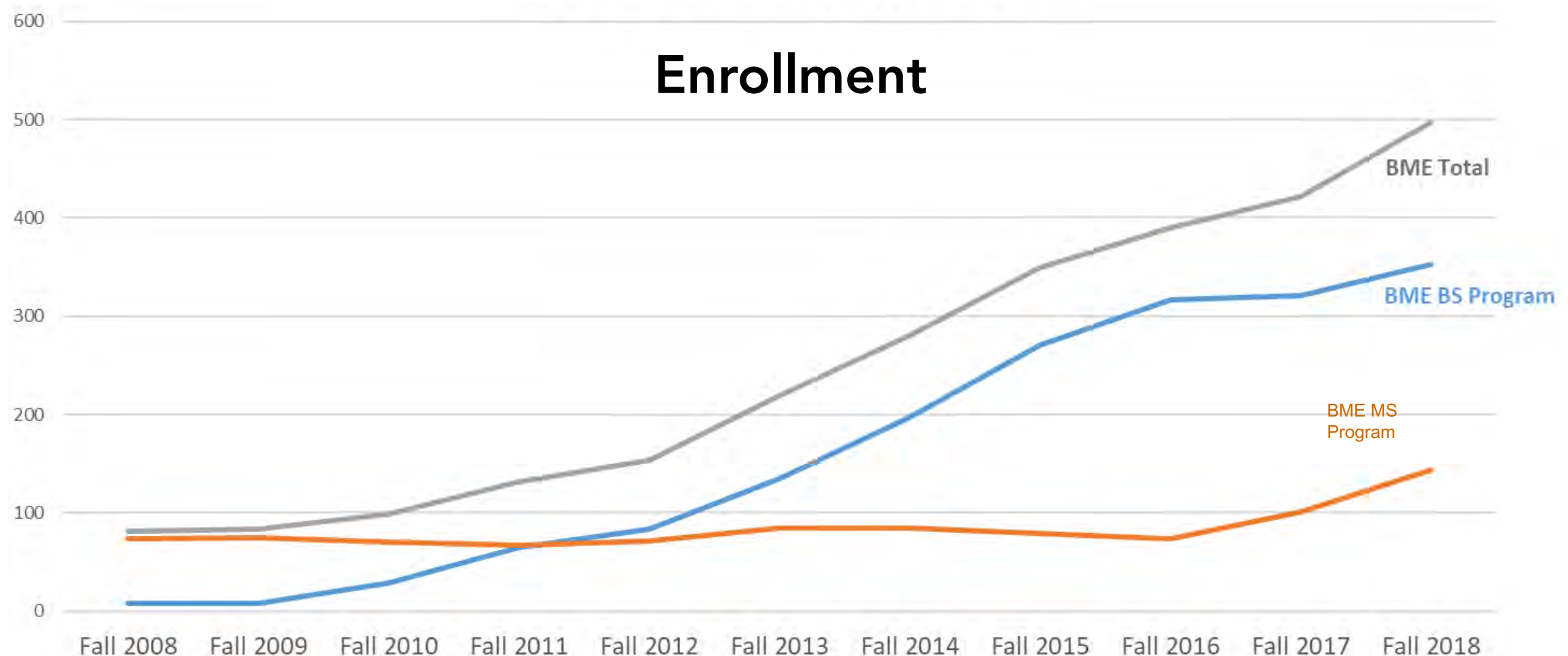


- Housed in the **Biomedical Engineering Department**
 - One degree program (undergraduate and graduate)
- BME Department Offices: Room 233
- BME Department Labs: Room 221, Room 233C

BS Biomedical Engineering



- Initial efforts begun in 2005
- Approved by CSU Chancellor in October 2011
- ABET accredited October 2014
- **Independent department, effective July 1st, 2018**



Biomedical Engineering



- Deployment of engineering knowledge in the biological and health sciences arena for the improvement of quality of human life
- Interdisciplinary
- Rapidly growing field
 - Opportunities for innovation, entrepreneurship, collaboration, and jobs
- Ability to communicate with life sciences professionals, physicians, regulatory affairs professionals, and others
- FDA-regulated industry





Disciplines/areas within Biomedical Engineering

- Biomedical devices
- Biomechanics
- Prosthetics, orthopedics
- Bioinformatics
- Biopharma
- Imaging
- Tissue engineering
- Diagnostics
- Proteomics, genomics
- Biomaterials
- Microfluidics
- Signal processing
- Nanotechnology
- Quality
- Regulatory

And many others, including some that are evolving



Figure compiled by Ganesh Iyer

Some California Statistics



- Number of biomedical companies: 2,848
 - Device & Medical Equipment: 1,662
- Revenues: \$115.4 billion
- Venture capital investment: \$4.8 billion
- Employment: 281,198

Some California Statistics



- Number of biomedical companies: ~~2,848~~ **3,249**
 - Device & Medical Equipment: ~~1,662~~ **1,796**
- Revenues: \$~~115.4~~ billion **\$169b**
- Venture capital investment: ~~\$4.8~~ billion **\$6.7b**
- Employment: ~~281,198~~ **298,709**

2018

Source: California Life Sciences Industry Report ~~2016~~

Some California Statistics



- Employment in Bay area: 72,663 (24%)
 - #1 in California
- Employment in Medical Devices, Instruments & Diagnostics: 77,278 (26%)
- Indirect/Induced employment: 621,000
- Employment growth rate (2012-2016): 7.7%

Driving Forces



Societal

- Aging and more affluent population
- Greater demand for, and awareness of, better quality of life
- Preventive therapies
- Health care cost containment
- Improved accountability

Technological

- Improved technological capabilities
- Optics & fiber optics
- Miniaturization of electronics
- Micro-fabrication
- Imaging technologies
- IT Improvements
- Nano, nano, nano
- Many, many others

Why BME @ SJSU?



- **No. 3 among biomedical engineering schools in the U.S.,**
based on average salary (December 2016)
- More than 1,100 biomedical companies in the Bay Area
- Curriculum developed with industry professionals and experts
- Diverse student population – 46% female
- Inclusive, welcoming SJSU BMES Chapter

Mission of the Biomedical Engineering Program



- To be a recognized leader in translational biomedical research; to provide hands-on education focused on solving real world biomedical problems; and to foster innovation and entrepreneurship in the service of human well being.



Program Educational Objectives

- **Program Educational Objectives** are defined as career and professional **accomplishments** that are to be **achieved within the first few years of graduation**.

Program Educational Objectives



- Our MS-BME Program is designed to produce graduates who are prepared to:
 1. Are able to solve complex engineering problems and tasks, and use engineering, science and statistics principles to justify recommendations.
 2. Are able to evaluate the impact of their work on society, including ethical, economic, global and environmental aspects.
 3. Can deliver effective presentations of engineering results in written and oral formats.
 4. Have life-long learning skills and are able to apply their engineering knowledge to critically evaluate relevant literature and new technologies or systems.
 5. Are effective leaders, capable of working in diverse environments.
 6. Are able to apply their engineering education to a variety of career paths.



Succeeding in our Program

- Curriculum Requirements
- Explore new areas, innovate
- Participate in BMES initiatives
 - Annual Biomedical Device Conference
 - Peer mentoring
 - Industry field trip
 - Social events
 - Hiking, volleyball



MS Program features

- Diverse
 - Full time students
 - Working professionals
- Interdisciplinary
- Integrates skill sets necessary for professional success into curriculum

People



- Faculty
- Industry Advisory Committee
- Students

Faculty



**Guna Selvaduray,
Ph.D., Chair**



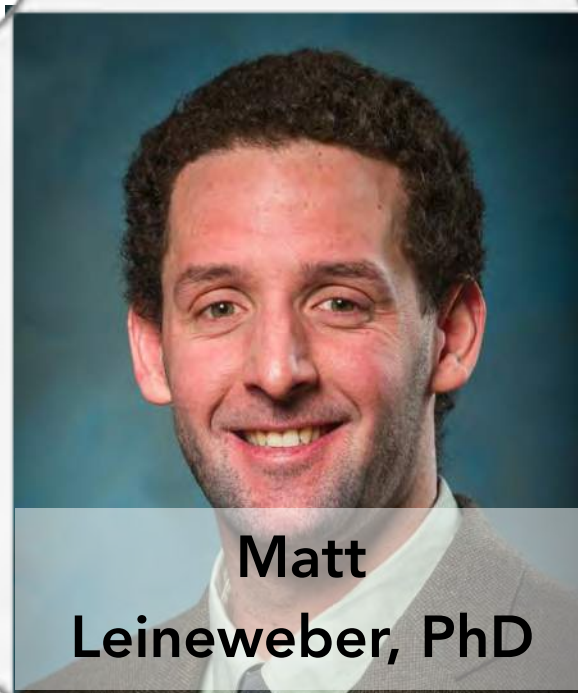
**Alessandro
Bellofiore, Ph.D**



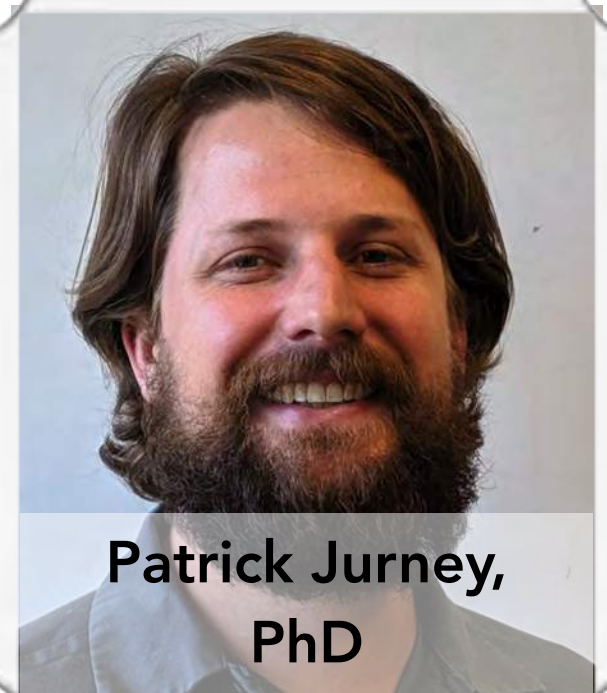
**Folarin
Erogbogbo, Ph.D.**



**Mindy
Simon, PhD**



**Matt
Leineweber, PhD**



**Patrick Journey,
PhD**

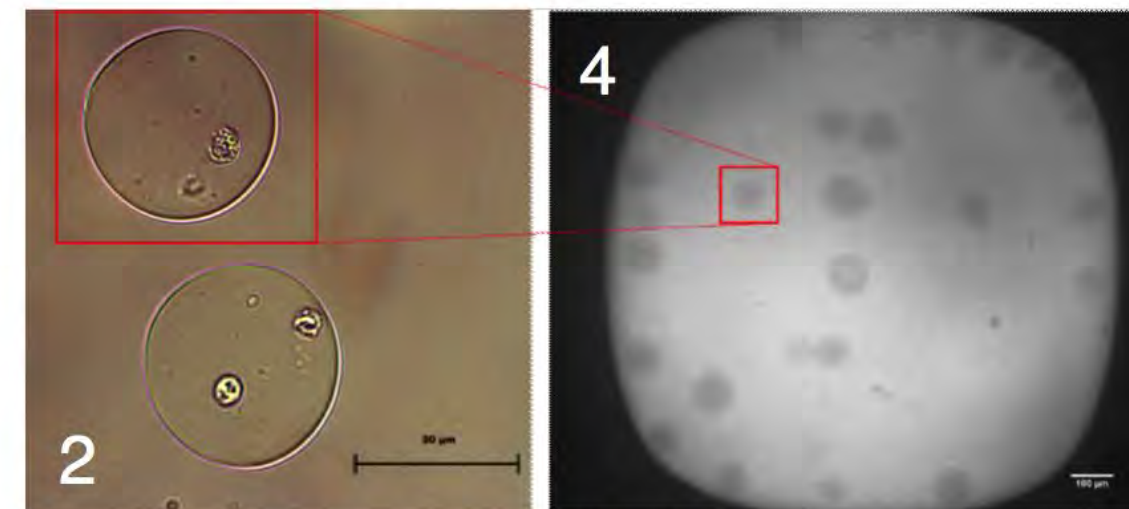
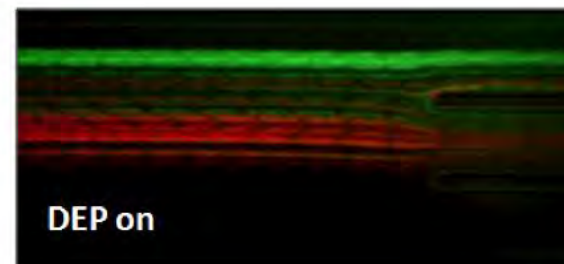
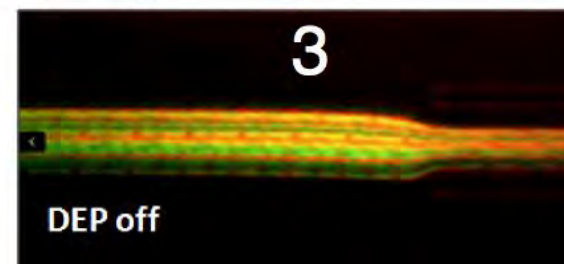
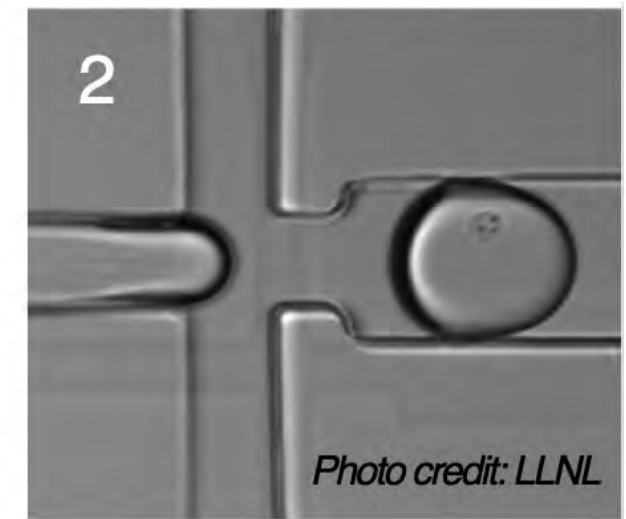
Ph.D. Biomedical Engineering - University of California, Irvine

M.S. Biomedical Engineering - University of California, Davis

B.S. Chemical Engineering - University of Cincinnati

Lab expertise:

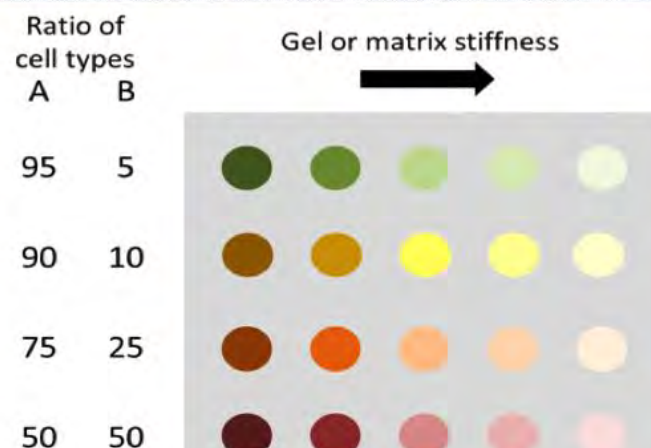
1. Production of picoliter, nanoliter droplets
2. Cell encapsulation using microfluidics
3. Cell sorting using dielectrophoresis (DEP)
4. Droplet manipulation using EWOD (electrowetting-on-dielectric) technology



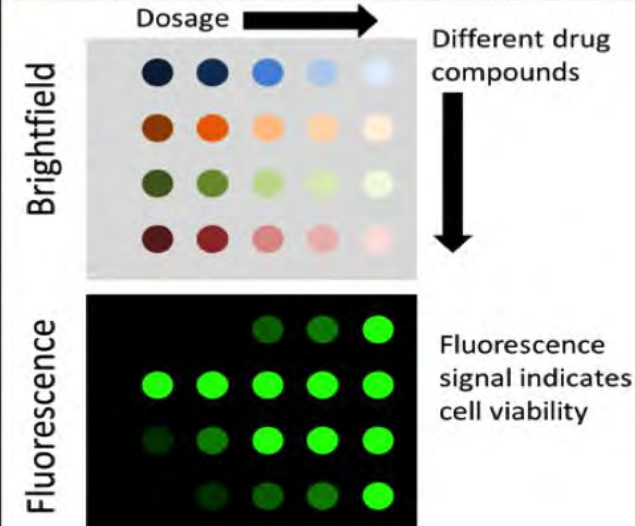
Cancer cells encapsulated in alginate beads. (right)
Alginate beads inside a 0.3 μ L droplet on an EWOD device.

Research interests

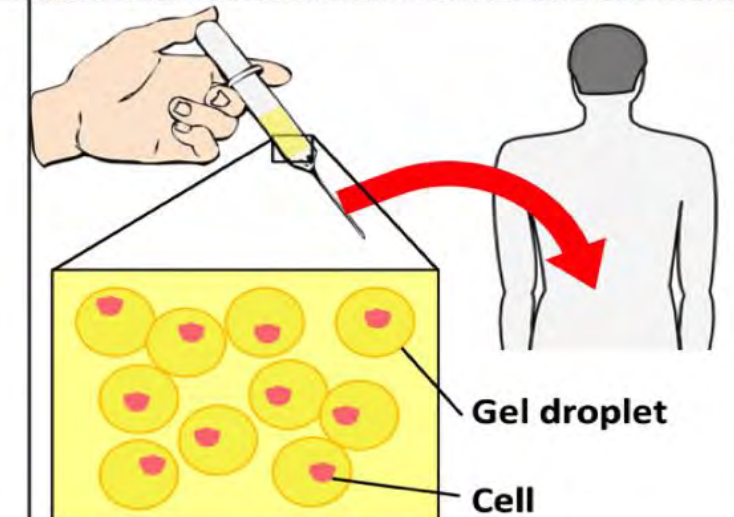
Tissue engineering screening



Drug dosing/toxicity studies



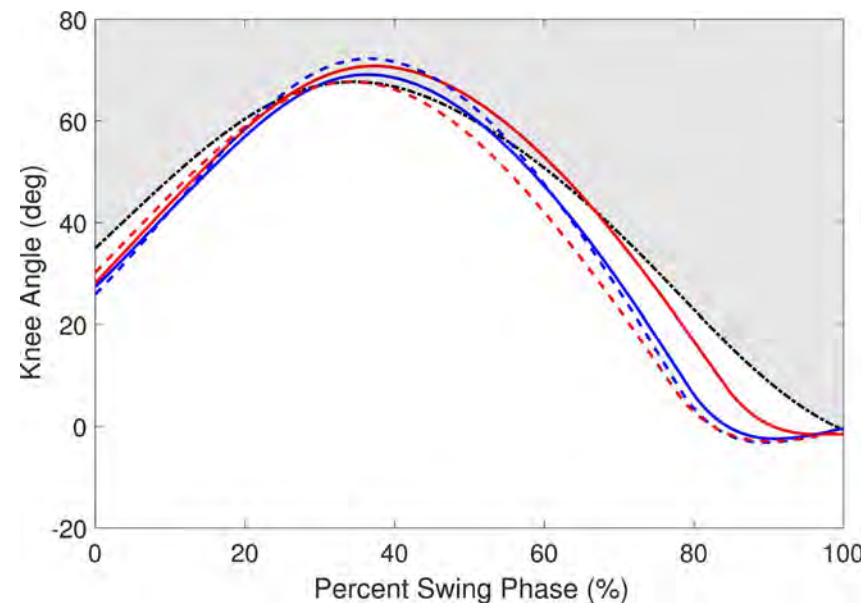
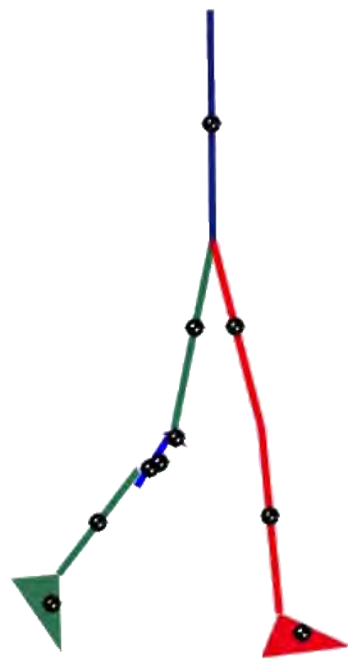
Vehicles for stem cell therapy



Matt Leineweber

Ph.D. Mechanical Engineering, Cornell University

M.S. Mechanical Engineering, Cornell University



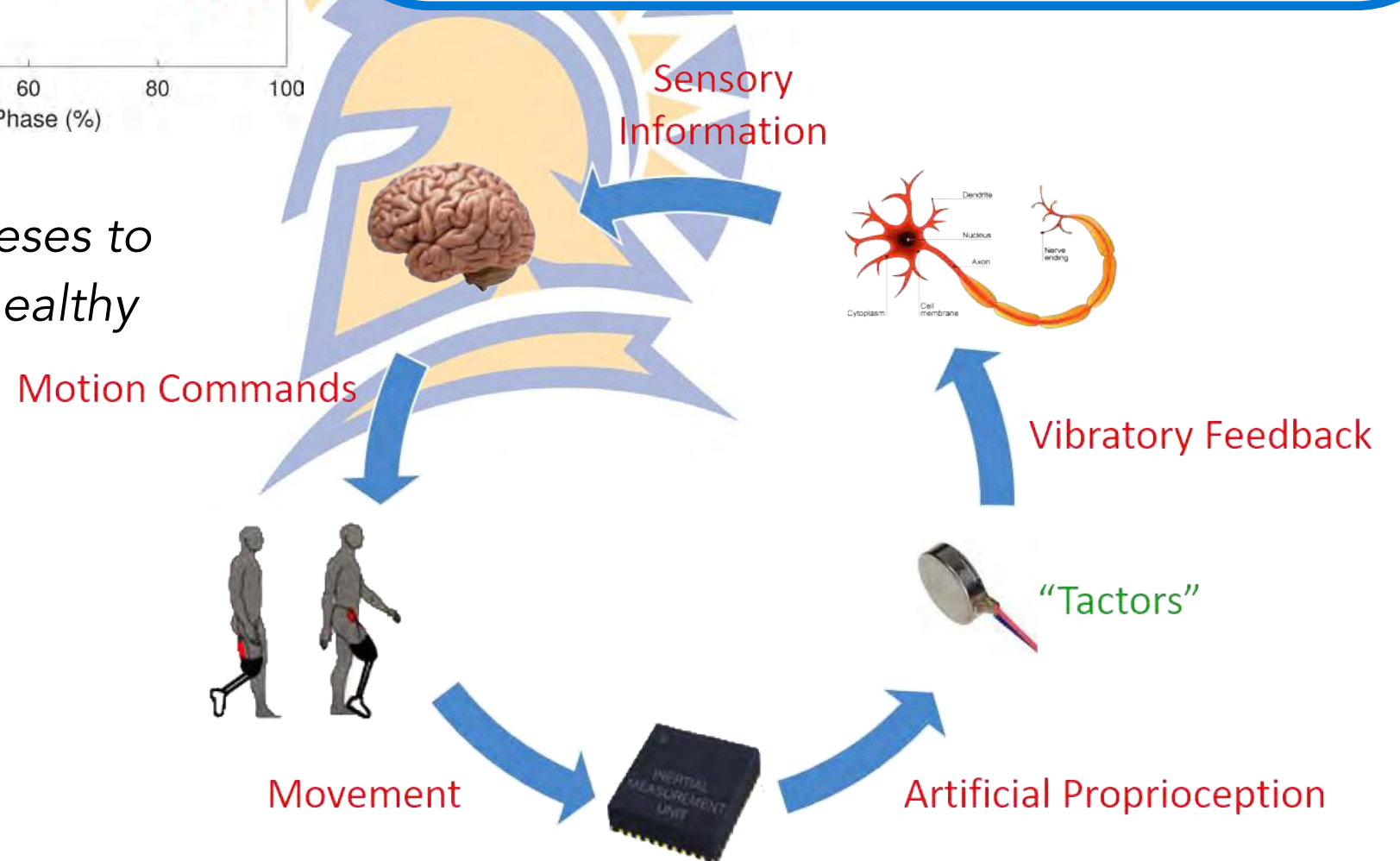
Research Interests

- Research-driven design of mobility assistive devices in real-world environments
- Computer simulations of human gait with lower-limb prostheses
- Use of additive manufacturing for flexible and low-cost prostheses
- Developing sensory biofeedback systems for lower-limb amputees

Simulating gait with lower-limb prostheses to improve device design and promote healthy movement



3D printing with flexible materials for a lightweight and functional infant hand prosthesis



Incorporating biofeedback technology into lower-limb prostheses

Ph. D. Biophotonics – University at Buffalo (SUNY)

B.S. Chemical Engineering – University at Buffalo (SUNY)

Research Interest :

Elucidating the fundamental relationships between nanoparticle synthesis conditions and desirable nanoparticle properties for biomedical applications.

Lab Expertise:

Gas phase synthesis of nanoparticles

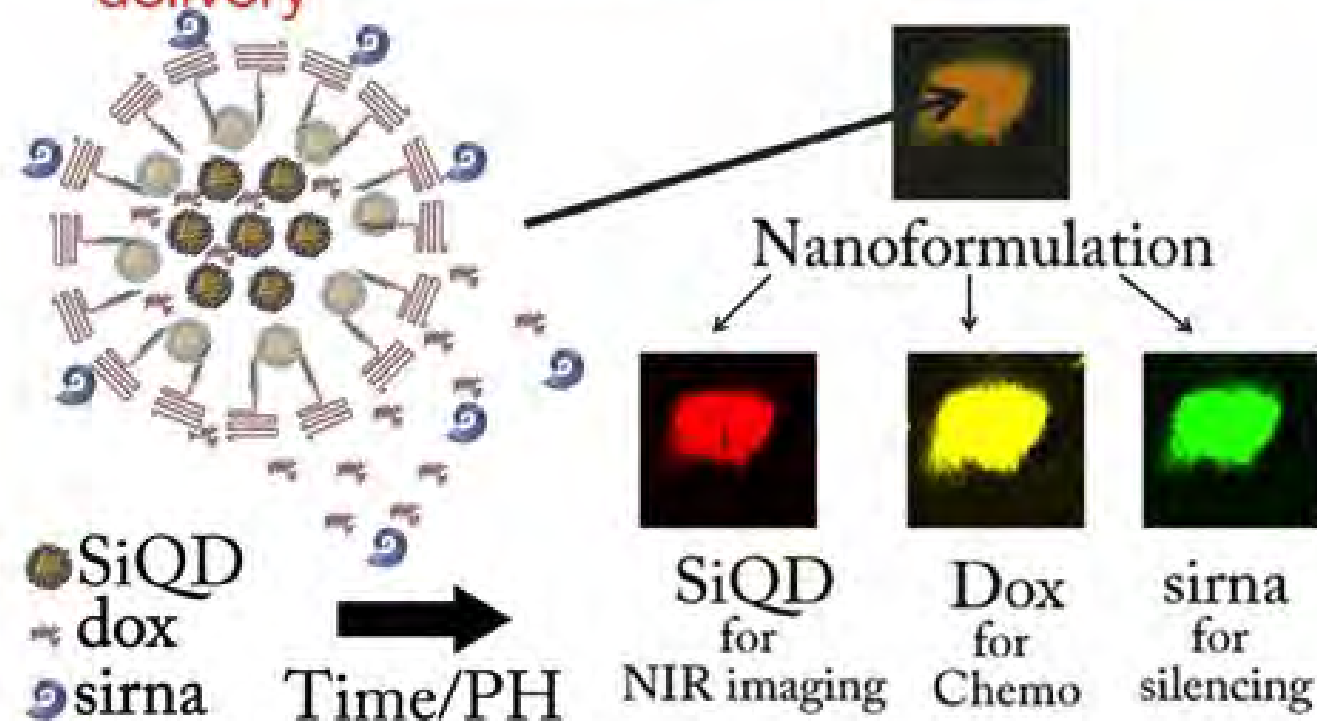
Engineering silicon for biomedical applications

Recent Publications:

Erogbogbo et al.,
Theranostics 3 (9), 719, 2013

Erogbogbo et al.,
ACS Nano 7 (8), 7303-7310, 2013

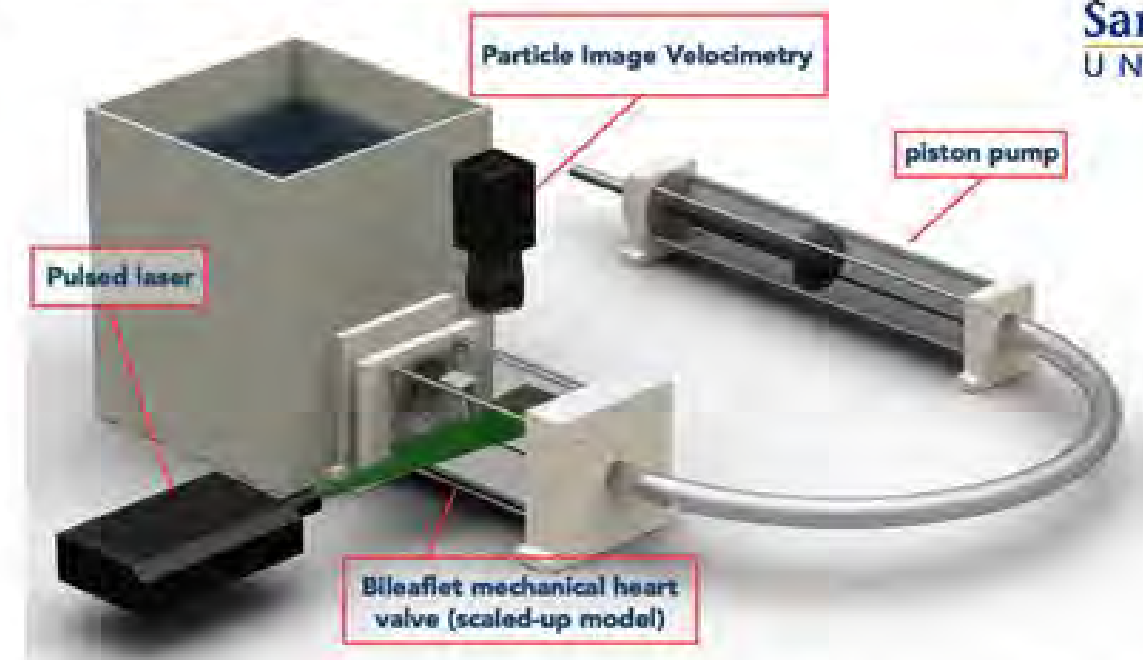
NIR Silicon QD for tracking Drug and RNA delivery



Ph. D. Chemical Engineering – Università Federico II, Napoli, Italy
M.S. Chemical Engineering – Università Federico II, Napoli, Italy

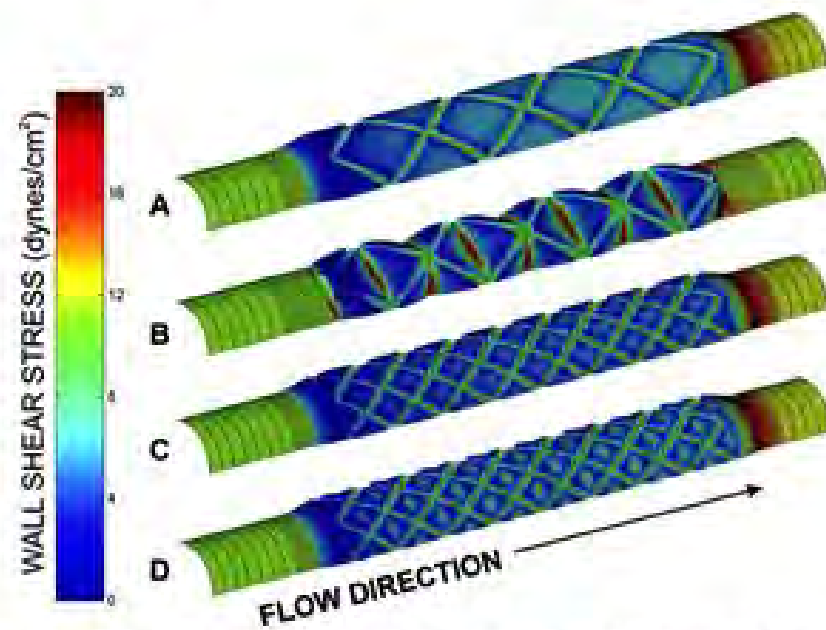
Research Interests

Fluid mechanics of biomedical devices, Hemodynamics, Cardiovascular mechanics, Particle Image Velocimetry



Scaled-up model of a mechanical heart valve. The experiment was designed to investigate the shear-induced blood damage due to the valve.

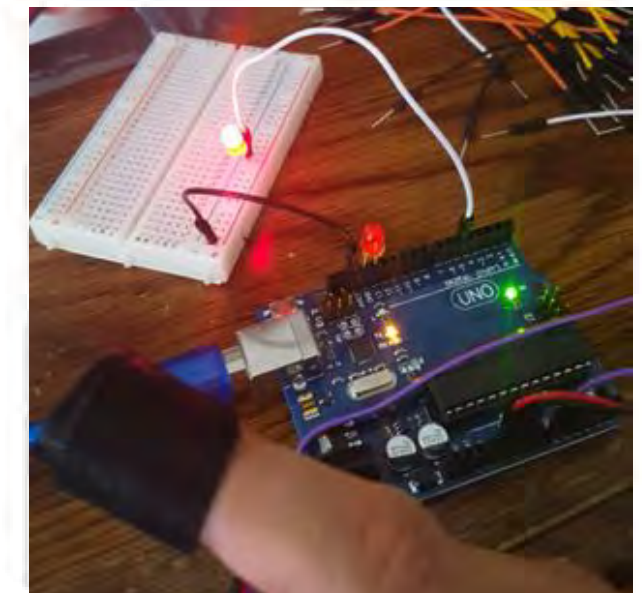
Current Projects



Numerical investigation of the hemodynamic performance of drug-eluting stents
(Image from LaDisa et al., 2005)



In Vitro Hemocompatibility Test Methods for Coronary Stents
(www.chandler-loop-system.de)



Wearable devices for monitoring heart function

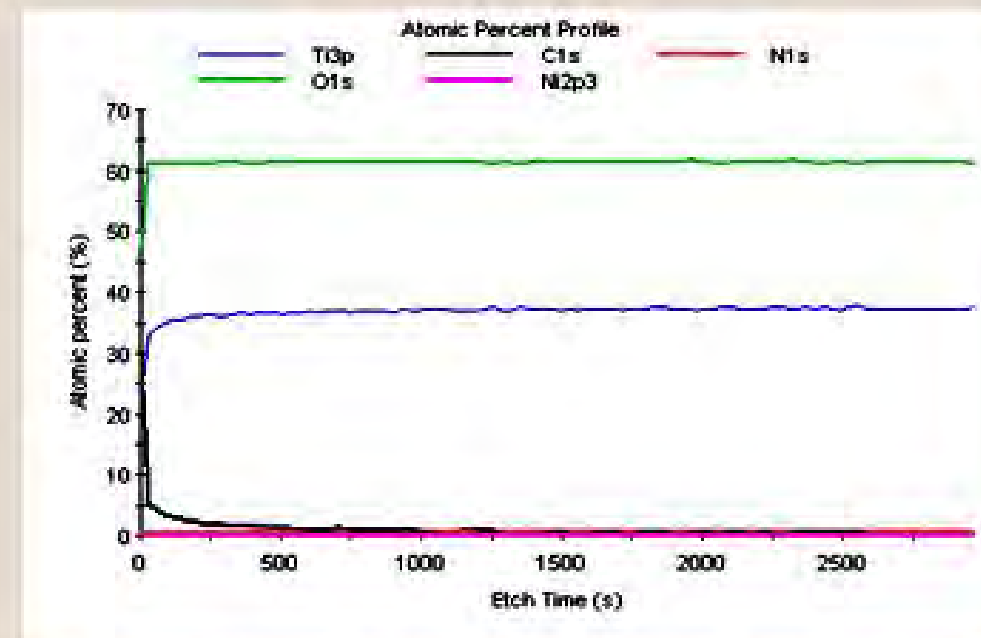
Ph. D. Extractive Metallurgy – Stanford University
M.S. Materials Sci & Engr – Stanford University
B. Engr. Mechanical Engr – Tokyo Institute of Technology

Research Interests

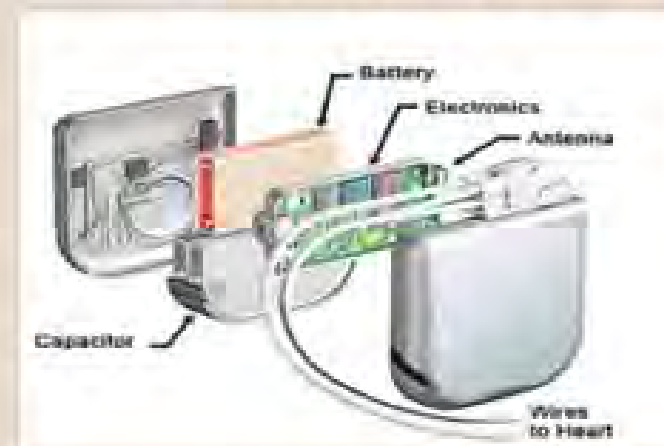
*Surface modifications and
biocompatibility of implantable
materials*
Solder joint reliability

Current Projects

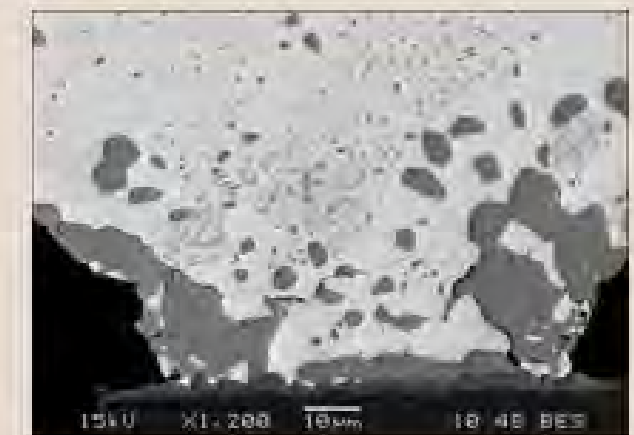
*Dip-coating of hydroxyapatite on
Ti substrates*
*Development of Ni-free TiO_2
coating on Nitinol*
*Development of natural fiber
reinforced composites for
orthopedic applications*
*Creep of Pb-free solders for
medical electronics*
Biomimetics



X-ray photoelectron spectroscopy depth profile of the specimen nitrided in 96% N_2 + 4% H_2 at 1000°C for 20 min and oxidized in air at 700°C for 60 min.



Electronic components of defibrillator;
Source:
<http://www.heartonline.org/defibrillator.htm>
(Accessed Sept 5, 2012)



Solder joint creep failure

Industry Advisory Council



Jennifer Matteus
*Director, Stryker
Neurovascular*



Maurino Flora
*Managing Director
APOMed Consultants*



Michael Reo
*Industry Veteran
Consultant*



Michael Passaglia
Cannon Quality Group

Other Members



Ray Chia, Ph.D.
*Senior R&D Manager
Am Med Systems*



Todd Thompson
Proteus Digital Health



Felix Vega, D. V. M.
Preclinical Consultant

Kamel Chair, M.D.
Stryker Neurovascular

Greg Bennett
Abaxis

Celia Holmes
Intuitive Surgical

Roger Guidi
Healthcare Associates

Janie Mandrusov, Ph.D.
Sinopsys

BMES SJSU

BIOMEDICAL ENGINEERING SOCIETY

Preview

BMES SJSU Student Chapter



Hanna Vu
President



Jessica Horton
VP - Conference



Ben Phung 🍊
VP - Events



Suzanne Estella
Secretary



Kevin Wiest
Treasurer

BMES Clubroom:
room E 182

Get involved!



Purpose

Promote the professions of BME through study, research, & discussion

Mission

Supplement academic knowledge gained in class with professional, community, and social activities.

Goal

Provide benefits and value to our members and the University as a whole

Programs

- Outreach
- Mentorship
- Health and Fitness
- BMEidea

Events

- National BMES Conference
- Bay Area Biomedical Device Conference
- General Meetings
- Company Tours
- Guest Speaker Events

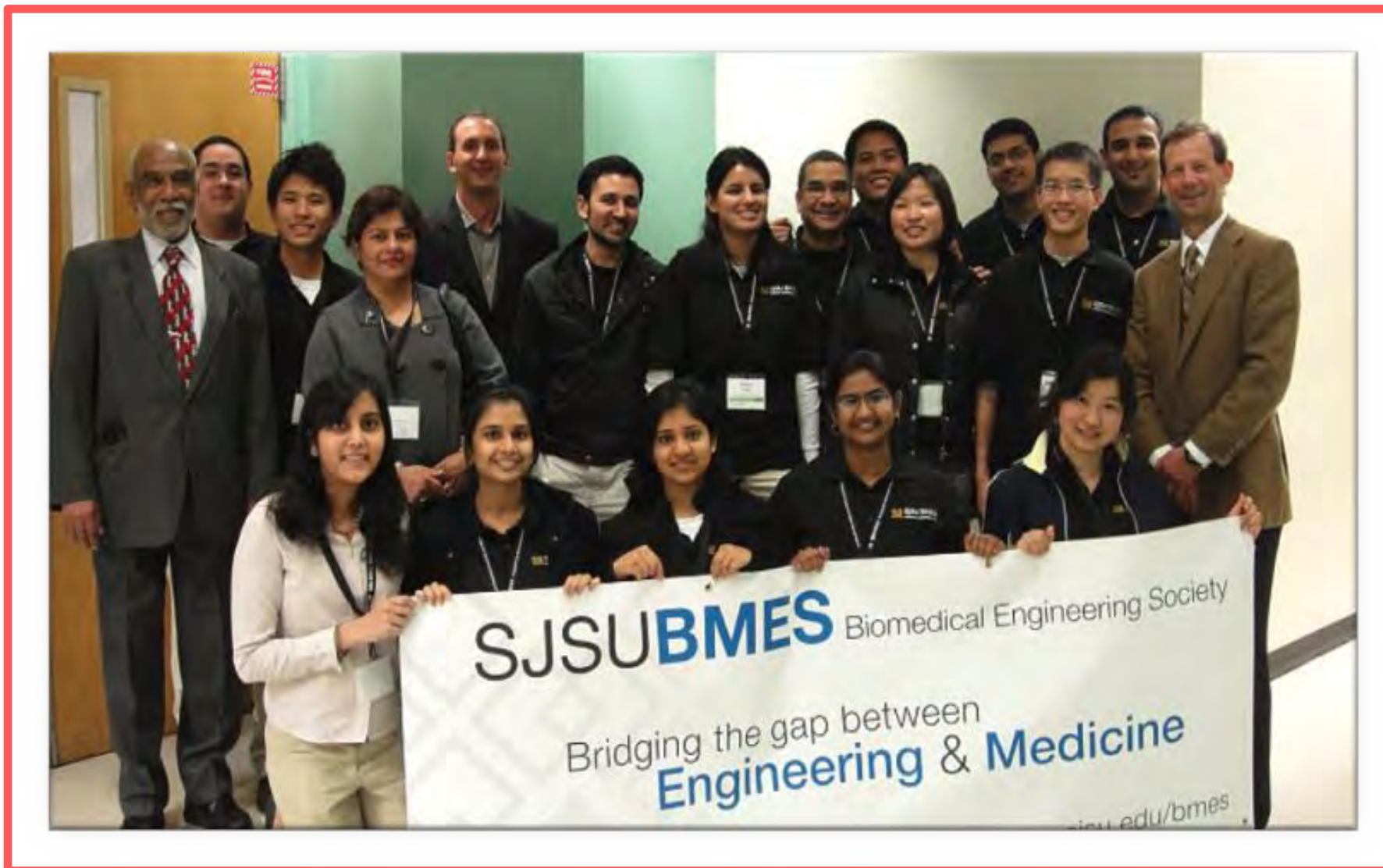
How to join

1. Obtain Membership from the National BMES
 - a. Bmes.org
 - b. \$30 for students
2. Forward your confirmation email attached with the contract to us
sjsubmes@gmail.com
3. Fill out Membership Update form on our Website
<http://www.sjsubmes.org/membership>

How to get your door code

1. Be a BMES Member
2. Fill out Clubroom Rules Contract
 - a. Complete electronically (recommended)
3. Email us the Contract:
sjsubmes@gmail.com

Chapter history



since
2008

Students, alumni, faculty, and industry professionals
collaborating

Awards



- 2010 – BMES Student Chapter Honorable Mention Award, BMES National
- 2010 – Outstanding New Program at San Jose State University, AS SJSU
- 2011 – Student Chapter Meritorious Performance Award, BMES National
- **2012 – Outstanding Student Chapter Award, BMES National**
- 2012 – Student Leadership Award, AS SJSU
- 2012 – Advisor of the Year, AS SJSU
- **2014 – Outstanding Student Chapter Award, BMES National**
- 2015 – Most Creative Design, UC Davis
- 2016 – Student Chapter Meritorious Performance Award, BMES National
- 2018 – Commendable Achievement Award, BME National

10th Annual Bay Area Biomedical Device Conference



April 3, 2019

Annual Meeting of the BMES (National)



Atlanta, GA
October 2018

MS program

Curriculum Requirements

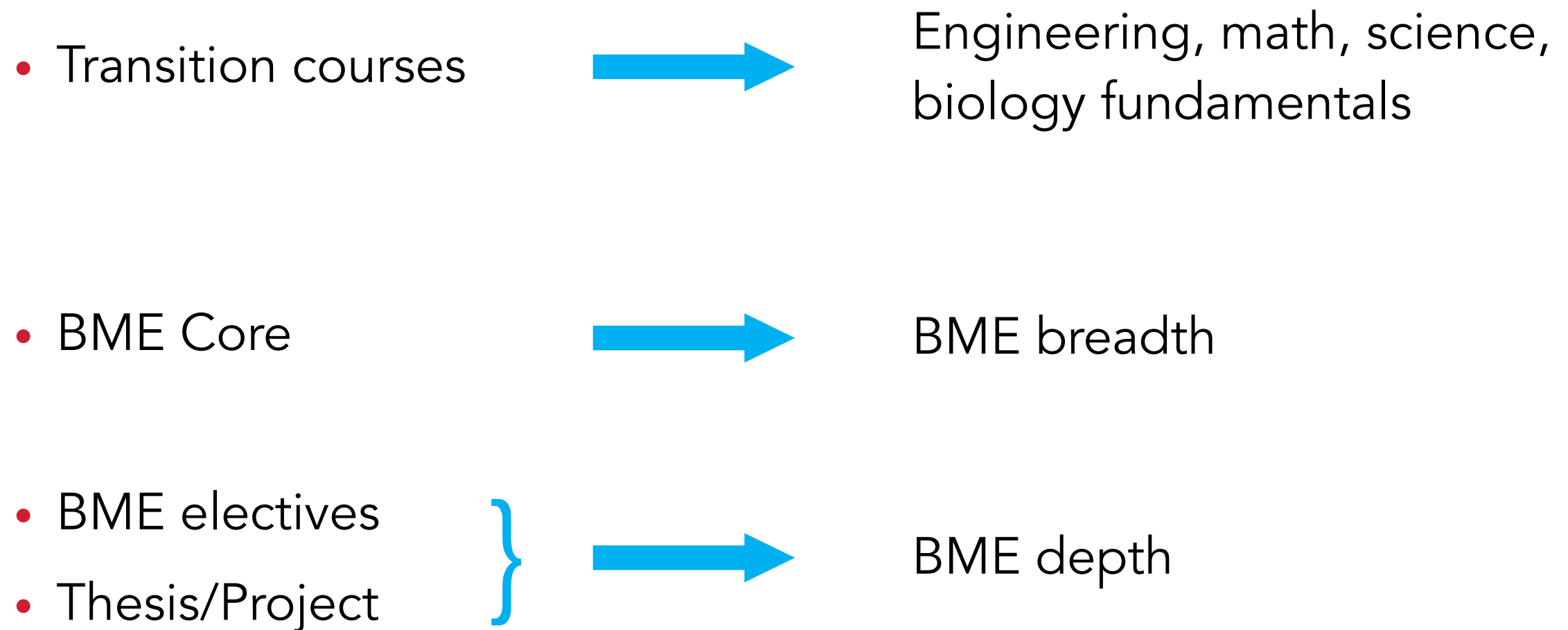
Entry requirements



- B.S. in engineering, physics, chemistry, biology
- *If* undergrad GPA > 3.00
then GRE not required

else GRE: > 315 (Sections 1, 2) + 3.5 (Section 3)

Curriculum Overview





Transition courses: lower division classes

- BME 65^{*#} Biomedical Applications of Statics
 - BME 68^{*#} Biomedical Applications of Metals and Ceramics
 - EE 98^{*#} Introduction to Circuit Analysis
 - Chem 1A^{*} General Chemistry
 - Chem 1B^{*} General Chemistry
 - Phy 50^{*} General Physics
 - Phy 51^{*} General Physics
- } 1 year of Chemistry
- } 1 year of Physics

** Lower Division classes can be taken at community colleges*

Needs special permission: email me with your name, student ID and Course Section number



Transition courses: upper division classes

- CE 112[#] Mechanics of Materials
- Math 123 (or 133A) Ordinary Differential Equations
- BME 147 Quantitative and Statistical Methods in BME
- BME 115 Foundations of Biomedical Engineering
- **Enrolling in Transition Courses**
 - **Enroll as soon as possible** to make sure you have a space
 - Follow directions sent out by BME Advisor
 - Mechanism to enroll in each class is slightly different
 - ***Not taking Transition Courses in a timely manner will delay your progress towards your degree***

[#] Needs special permission: email me with your name, student ID and Course Section number

Change of classification



- As long as you still have transition courses to complete, you will have a **conditionally classified standing**.
- Once you complete all your transition courses with B or better, you can change your classification to **classified standing**.
 - You initiate the process by submitting a **Change of Classification form** to the Graduate Advisor.
- **Note:** having a classified standing (without condition) is a prerequisite to start your MS project/thesis.



- BME 207: Experimental Methods in BME
- BME 210: Mathematical Methods in BME
- BME 272: Medical Device Design & Principles
- BME 274: Regulatory, Clinical and Manufacturing Aspects of Medical Devices
- BME 177: Physiology for Engineers
- BME 291: Project/Thesis Preparation Seminar

BME electives



- BME 117: Biotransport Phenomena
- BME 165: Applied Engineering Biomechanics
- BME 168: Medical and Biological Polymers
- BME 182: Prosthetics and Orthotics
- BME 188: Biomedical Manufacturing Methods
- BME 254: Microscale Biomedical Systems
- BME 256: Biomedical Applications of Nanoplatfroms
- BME 258: Biomedical Imaging
- ME 267: Engineering Biomechanics
- BME 272: Biomedical Device Design and Principles
- BME 288: Tissue Engineering

Maximum nine (9) units of 100-level courses



MS Thesis/Project Options

- **Project** option:
 - BME Core: 15 units +
 - BME Electives: 12 units (4 classes) +
 - BME 291: 1 unit MS Thesis/Project Preparation Seminar +
 - BME 298: 2 units MS Project =

30 units

- **Thesis** option:
 - BME Core: 15 units +
 - BME Electives: 9 units (3 classes) +
 - BME 291: 1 unit MS Thesis/Project Preparation Seminar +
 - BME 298: 2 units MS Project +
 - BME 299: 3 units MS Thesis =

30 units



Recommended Class Sequence

- Transition Courses
- Engr 200W, BME Core
- BME 291 + Electives
- Project/Thesis (BME 298/299)



Prerequisites for BME 291

- **All** Transition Courses completed
- Engr 200W with B or better
- Minimum 9 units towards MS degree
- Change of Classification form filed
- Candidacy form filed
- Good academic standing - GPA > 3.0
- Thesis/Project topic and advisor identified



Project/thesis: your path to graduation

- Before you begin BME 291
 - identify technical advisor, topic and team members
 - complete short reading/writing assignments (lit review, specific aims...)
 - obtain access to the lab (requires completing online training and test)
 - identify required training (instrumentation, software...), budget and funding opportunities, dissemination plan.
- *A word of advice:* get started at least one semester before you enroll in BME 291.



Project/thesis: your path to graduation

- During the BME 291 semester
 - Write your project proposal
 - Defend your proposal
 - Complete all the required training (instrumentation, software)
 - Obtain necessary clearance for your research: IRB, IACUC



Project/thesis: your path to graduation

- During the BME 298/299 semester
 - Perform your experiments
 - Write your final report
 - Disseminate your results
 - Defend your project
- **The time to complete your MS project/thesis is not fixed.**
 - It depends on a number of more or less predictable variables, including but not limited to the time and effort you put into it.
 - If you need to extend your project into one or more semesters where you don't have any other classes to complete, you will be required to **enroll in UNVS 1290R**, to maintain continuous enrollment.



Project/thesis: your path to graduation

- After you successfully defend your project/thesis
 - Finalize and submit your final report
 - Collect and submit all the required paperwork
 - Complete your project close-out and handover
 - **You graduate!**

Program requirements



- Maintain GPA > 3.0 in all coursework
 - Lower division courses do not count towards GPA
- Courses for MS degree must be C or better
- 30 semester units of **approved** courses
- Meet university's English proficiency requirement
 - **Does not count towards 30 units for M.S. degree**
- Complete Thesis/Project Proposal Examination (BME 291)
- Complete Thesis/Project Defense
- Submit written Thesis or Project Report
- Note: **there is a 7-year limit on course validity.**

English Competency Requirement



- University requirement: *all graduate students must demonstrate competency in written English.*
- Four pathways to meeting this requirement
 - Have documented proof of having completed an upper division technical writing class with B or better; this class needs to be acceptable at SJSU
 - Submit proof of competency in written English, e.g., paper published in peer reviewed journal with student as sole or principal author
 - Take the university's Writing Skills Test (WST)
 - you may earn a "waiver" for Engr 200W
 - Take Engr 200W with B or better

Paperwork Requirements - 1



- **Advising is mandatory every semester.**
 - Advising Hold will be removed only after **Advising form** is submitted and approved
 - Please: follow directions!
- Transfer from Conditionally Classified standing to Classified standing, when Transition Courses have been completed
 - Fill out and submit Change of Classification form
 - Fill in all of your information AND each Transition Course, when taken, where taken, grade obtained.

Paperwork Requirements - 2



- **Candidacy form**
 - aka **Petition for Advancement to Graduate Candidacy**
- Before you can submit your candidacy form, you must have:
 - Completed all Transition Courses
 - Changed your Classification to Classified standing
 - Completed a minimum 9 of graduate units
 - No more than 9 units of 100-level classes
 - Completed the University's English proficiency requirement

Paperwork Requirements - 3



- **Candidacy form**
 - aka **Petition for Advancement to Graduate Candidacy**
- **The form must be filed at least one year before graduation and before beginning BME 291.**
- List only courses to be counted towards MS degree
 - Do not include Transition Courses or Engr 200W
 - Enter classes in appropriate categories
- The total number of units must add up to 30, with GPA > 3.0
- Your grade in each course must be C or better



Paperwork Requirements - 4

- **Course Substitution Form**

- This form must be submitted **only if** you are changing any of the elective courses listed in the Candidacy form.
 - List course(s) to be dropped and course(s) to be added.



Paperwork Requirements - 5

- **Application for Graduation**
- Must be submitted at least two semesters ahead
 - submit directly to GAPE

Paperwork Requirements - 6



- **Verification of Culminating Experience**
- To be filled out and filed after
 - thesis/project defense completed, AND
 - written report/thesis submitted and approved, AND
 - all other requirements for the MS degree have been met.
- *The Graduate Coordinator submits this form upon verification from project/thesis advisor that all requirements have been completed.*
- **You will not graduate until this form is submitted.**

Paperwork Requirements - 7



- Clear grades for BME 298/299
 - Make sure that the instructor for BME 298/299 submits a grade for you
 - BME 298/299 will carry a "RP" grade until everything is completed, including submission of thesis
- All forms issued by Graduate Studies Office can be found at:
 - <http://www.sjsu.edu/gape/forms>
- All forms must be submitted electronically.
- Please submit all forms to Graduate Advisor, for review, approval and forwarding to GAPE.



Other relevant information

- All forms electronically available at:
 - <http://www.sjsu.edu/gape/forms>
 - Electronic submission is a requirement
 - Keep copies of all paperwork submitted



Student Rights & Responsibilities

- Rights
 - Fair grading – demand it!
 - Access to records (only your own)
 - Office hours – use it!
- Responsibilities
 - Academic honesty
 - no cheating, no plagiarism
 - do not give or receive unauthorized assistance

Important dates: Fall 2019



SJSU ACADEMIC YEAR CALENDAR 2019/20*

FALL 2019

<i>Thursday</i>	<i>July 4</i>	<i>Independence Day - Campus Closed (I)</i>
Monday	August 19	Academic Year Begins – Fall Semester Begins
Monday - Tuesday	August 19 and 20	Pre-Instruction Activities: Faculty Orientation, Advisement, Faculty Meetings and Conferences (P)
Wednesday	August 21	First Day of Instruction – Classes Begin
<i>Monday</i>	<i>September 2</i>	<i>Labor Day - Campus Closed (L)</i>
Tuesday	September 3	Last Day to Drop Courses Without an Entry on Student's Permanent Record (D)
Tuesday	September 10	Last Day to Add Courses & Register Late (A)
Wednesday	September 18	Enrollment Census Date (CD)
<i>Monday</i>	<i>November 11</i>	<i>Veteran's Day (Observed) - Campus Closed (V)</i>
<i>Wednesday</i>	<i>November 27</i>	<i>Non-Instructional Day – (NI)</i>
<i>Thursday</i>	<i>November 28</i>	<i>Thanksgiving Holiday - Campus Closed (T)</i>
<i>Friday</i>	<i>November 29</i>	<i>Rescheduled Holiday - Campus Closed (RH)</i>
Monday	December 9	Last Day of Instruction - Last Day of Classes
Tuesday	December 10	Study/Conference Day (no classes or exams) (SC)
Wednesday - Friday	December 11-13	Final Examinations (exams)
Monday - Tuesday	December 16-17	Final Examinations (exams)
Wednesday	December 18	Final Examinations Make-Up Day (MU)
Thursday	December 19	Grade Evaluation Day (E)
Friday	December 20	Grades Due From Faculty - End of Fall Semester (G)
Wednesday-Thursday	December 18-19	Commencement (C)
<i>Monday</i>	<i>December 25</i>	<i>Christmas Holiday - Campus Closed (CH)</i>
.....	December 25	Winter Recess

Fall 2019 BME courses



- BME 115: Foundations of BME
- BME 117: Biotransport Phenomena
- BME 130: Numerical Methods in BME
- BME 147: Quantitative and Statistical Methods in BME
- BME 168: Medical and Biological Polymers
- BME 177: Physiology for Engineers
- BME 188: Medical Device Manufacturing Methods
- BME 198A: Senior Design Project I
- BME 256: Biomedical Applications of Nanoplatfroms
- BME 274: Regulatory, Clinical and Manufacturing Aspects of Medical Devices
- BME 291: MS Thesis/Project Preparation Seminar
- BME 298/299: MS Project/Thesis

Conditions for probation and disqualification



- **Probation**

- Based on **overall GPA**
- *IF* **overall GPA** falls below 3.0

- **Continued Probation**

- *IF* **overall GPA** < 3.0 , *BUT*
- your last completed **semester GPA** > 3.0

- **Disqualification**

- *IF* 2 consecutive semesters with an **overall GPA** < 3.0 , *AND*
- a **semester GPA** ≤ 3.0

Reinstatement



- When and why:
 - You have been disqualified and want to get back in
- Reinstatement Procedure:
 - Must obtain, complete, and submit **Reinstatement Petition**
 - from Registrars Office to MSE Office (E 491)
 - Select Program of Study option on petition
 - Program Director will identify two 100-level technical courses to take
 - you must get a grade of B+ or better in both to be reinstated
 - you cannot take graduate-level courses
 - Must apply for readmission

More about SJSU



- Classes – harder to enroll, especially UG classes
 - Enroll as early as you can!
- Parking – bad
- International Student Services
 - (Clark Hall Room 543)
- MLK Jr Library
 - Online Search & Interlibrary Loan Services
 - Largest public library west of the Mississippi
- Event Center & Exercise Facilities
- Spartan Bookstore
- Good restaurants within walking distance



I remember meeting with you for the first time. I was just beginning my career as an engineer and a graduate student, and I wasn't quite sure what to expect from the program. However, I leave the program with a vast array of new knowledge and skills that will be useful in my career for many years to come. I am proud to have been part of such a distinguished program and I look forward to hearing about more of the great things to come from SJSU and SJSU's BME program.

Alexis Dong – MS BME 2016

Thank you very much for your attention !



Questions
Comments
Ideas
Anything else???

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Welcome to SJSU
