

Mathematics Department Meeting

Thursday, November 19, 2015

Agenda

1. Hiring Updates
2. Student Equity Updates
3. Winter Summer Math Academy
4. Committee Updates
5. Power Outage Protocol
6. Fall 2016 Preference Forms
7. Scheduling Algorithm
8. Multiple Measures
9. ECC STEM Program
10. Announcements
11. Planning Meeting for Math Participation in Onizuka Day – Tuesday, December 1, 1:00pm
– 2:00pm in MBA 118
12. Cengage Presentation Monday, November 30, 1pm - 2pm

**EL CAMINO COLLEGE
MATHEMATICAL SCIENCES DEPARTMENT MEETING
NOVEMBER 19, 2015**

Present: Eduardo Barajas, Michael Bateman, Lynn Beckett-Lemus, Susan Bickford, Carl Broderick, Susanne Bucher, Jeffrey Cohen, Diaa Eldanaf, Jill Evensizer, Dominic Fanelli, Junko Forbes, Milan Georgevich, Megan Granich, Hamza Hamza, Arturo Hernandez, Anna Hockman, Judy Kasabian, Lars Kjeseth, Natalie Koch, Bob Lewis, Marta Maaza, Zach Marks, Art Martinez, Alice Martinez, Matthew Mata, Trudy Meyer, Bonnie Mercado, Ashod Minasian, Benjamin Mitchell, Kaysa Moreno, Jasmine Ng, Kris Numrich, Russell Reece, Solomon Russell, Catherine Schult-Roman, Greg Scott, Beth Schwartz, Aban Seyedin, Ambika Silva, Jacquelyn Sims, Ralph Taylor, Susan Taylor, Lijun Wang, Paul Yun

HIRING UPDATES

Linda Ternes has been Board approved as the Associate Dean of Mathematics. She comes to us from Golden West College and will start on 1/4/16.

A full-time math hiring committee will be formed. Priority will go to tenured faculty. In order to be part of the committee, members must be present at all meeting dates.

The application deadline for the full-time Math instructor position is 12/22/15. On average, the department receives about 100 applications. It is being considered to change the initial interview dates from 3/26 – 3/27 (Easter weekend) to 4/1 – 4/2. Alice Martinez motioned to move the interviews to 4/1 – 4/2. S. Taylor seconded the motion. 4 abstentions, but majority voted to move initial interviews to 4/1 – 4/2.

Dean J. Sims anticipates six math faculty will be on the committee.

T. Meyer provided an updated on the part-time hiring committee. The committee is considering changing some of the wording on the job announcement. The committee is aiming to have the announcement out towards the end of the semester. Dean J. Sims advised sending the announcement out after the full-time application has closed so applicants don't become confused.

Dean J. Sims recognized Junko Forbes for all of her efforts as Faculty Coordinator. Next semester, Junko will return to the classroom full-time.

STUDENT EQUITY UPDATES

Dean J. Sims would like to create a Math Student Equity Committee to begin during the spring semester. Email Dean J. Sims or M. Maaza if you are interested in being part of the committee.

The department will continue having cohort classes dedicated to target students. The current SEP students will be routed into these courses.

In addition, the department will have Math Review Workshops, SI sessions and faculty training.

WINTER SUMMER MATH ACADEMY

The Math Academy is a three-week math refresher boot camp. At the end of the three weeks, students retake the placement test. On average, more than 55% of these students place into a higher math level.

Students in this program are being tracked. Their success rates in the courses they place into are just as good, if not better, as students who were originally placed there.

Winter Math Academy showed even better results than Summer Math Academy.

The department recently had a vote to have Math Academy supported by institutional funds by becoming a non-credit course. The Math Academy will not change once it become a non-credit course. The only change will be the way it is funded which will create an opportunity for the college to get apportionment.

COMMITTEE UPDATES

DCC – there are several courses that are already completed at the CCC level and there are some courses that are still in progress.

The department plans to inactivate Math 160 next semester.

Math 165 was approved for UC transfer, but it will need approval for IGETC.

All committees and programs, including SI, tutoring and MESA, are submitting their program plans. After programs plans are submitted, Division Council reviews for commonality and ranks them.

Tutoring – volunteer tutors are needed during week 15 and 16. Flex credit is available for those who volunteer outside of their normal office hours. Another option is to hold office hours in the Math Study Center. B. Mitchell will send out an email with details.

L. Schreier's role as Interim Tutoring Coordinator has been extended through the spring semester.

One of the department's recommendations is to hire a full-time Tutoring Coordinator so there can be more consistency and commitment in the Math Study Center.

POWER OUTAGE PROTOCOL

The college is trying to finalize the protocol for power outages. They are going to try to get a generator since the restrooms in the MBA are not manual and run on electricity.

FALL 2016 PREFERENCE FORMS

The fall schedule has rolled over.

The deadline for fall preference forms is 12/1/15. It is helpful to provide specific examples when completing preference forms as it helps Dean J. Sims better understand your desired schedule.

SCHEDULING ALGORITHM

Dean J. Sims scheduled spring 2016 classes based on a scheduling algorithm. The algorithm starts with the most senior faculty then goes across.

The group order to the scheduling goes as follows:

- Spring 2016 – I, II, III, IV
- Fall 2016 – II, I, IV, III
- Spring 17 – III, IV, I, II
- Fall 2017 – IV, III, II, I

Dean J. Sims will use this method for at least four semesters.

ECC STEM PROGRAM

The STEM Program is looking for presenters. If you are interested, or if you know of any professionals who may want to present, contact Art Martinez.

ANNOUNCEMENTS

Dean J. Sims recognized Greg Scott for his service and inspiration within the Division. There is a sign-up sheet in the mailroom for those who would like to attend his retirement party. Checks and donations can be sent to J. Forbes and S. Bucher.

L. Kjeseth recommended that as faculty discuss events for STEM Week, they consider involving students. Flex credit is available for faculty, and there is also a \$400 honorarium for non-faculty.

MESA Updates – Paul Yun will discuss his current research on the Mars landing on 2/3/16 for the STEM Speakers Series.

MESA will be presenting the movie *Interstellar*.

Over 200 new MESA applications were received this semester. The applications were open for the first five weeks of semester. Students can apply only once a year.

During the summer, MESA lost two full-time employees because a grant was not approved.

The planning meeting for math participation in Onizuka Day is on 12/1/15 from 1:00pm – 2:00pm in MBA 118. The actual Onizuka Day event is 3/5/16. P. Yun and Alice Martinez are

organizing the planning for math participation. There is a \$50 honorarium or four hours of flex credit available for those who participate. You can also attend a dinner with the guest astronaut.

Cengage is presenting on 11/30/15 from 1:00pm – 2:00pm in MBA 215. They will discuss a new product for developmental classes that's designed to be usable at any level. The product is largely online but does have a textbook supplement. There is a one-time payment of \$60 and can be used for any class. The highest level would be Intermediate Algebra.

Distance Education Institute is on 11/20/15. Anna Hockman, Aida Ovanessian and Ambika Silva will be presenting.

Dean J. Sims recognized Judy Kasabian for serving on accreditation panels and site visits for the last several years. For those that are interested in reviewing proposals for NSF and serve as a peer reviewer, contact Judy Kasabian.



2016 Winter Math Academies

How many math courses do you really want to take?

Regardless of where you were placed, we can help you cut the number of math courses you need.

- ❖ Cut one or more semesters from your educational plans
- ❖ Study in a friendly and stress free environment
- ❖ Learn how to study efficiently
- ❖ Be well prepared for the placement test
- ❖ Take a **FREE** 2-weeks math refresher course and Retake the placement test

Apply NOW! Space is limited!

Summer Math Academies are available for people placed into:

Math 12 Math 23 Math 40 Math 180

Classes meet Monday-Friday, 8:00 a.m.-12:30 p.m.,

January 4th – January 15th, 2016

To reserve your seat, visit <http://goo.gl/forms/ebs8DZmnB4> to complete an online application.

Please contact Dr. Malinni Roeun at MathAcademy@elcamino.edu for more information



El Camino College | 16007 Crenshaw Blvd. Torrance, CA 90506 | Phone: (310) 532-3670 | Toll Free: 1 (866) ELCAMINO | 1 (866) 352-2646

2016 Winter Math Academies

Information Session Dates:

Friday, October 16th, 2015

4:00 p.m. - 5:30 p.m.

Location: MBA - 319

Friday, November 13th, 2015

5:30 p.m. - 7:00 p.m.

Location: MBA - 319

Saturday, October 24th, 2015

1:30 p.m. - 3:00 p.m.

Location: MBA - 319

Friday, December 4th, 2015

11:00 a.m.-12:30 p.m.

Location: MBA - 319

Saturday, November 7th, 2015

1:30 p.m. - 3:00 p.m.

Location: MBA - 319

Friday, December 4th, 2015

5:30 p.m. - 7:00 p.m.

Location: MBA - 319

2016 WMA Sections:

Math 12 – Basic Skill Academy

8:00am - 12:30pm (Jan 4th – Jan 15th)

Math 40 – Algebra Academy

8:00am - 12:30pm (Jan 4th – Jan 15th)

Math 23 – Pre Algebra Academy

8:00am - 12:30pm (Jan 4th – Jan 15th)

Math 180 – Pre Calculus Academy

8:00am - 12:30pm (Jan 4th – Jan 15th)

To reserve your seat, visit <http://goo.gl/forms/ebs8DZmnB4> to complete an online application.

*****To take full advantage of the program you must be enrolled in a Math Course for Spring 2016, and have your Educational Plan current.**

Math Department, Committee Updates

Agenda for November 19, 2015

I. Student Equity Plan

MATH-37-0240	MBA 320	LAB	T TH	2:00:00 PM	3:50:00 PM	Kjeseth	Lars
MATH-37-0240	MBA 318	LEC	M W	2:00:00 PM	4:20:00 PM	Schwartz	Beth
MATH-67-0352	MBA 218	LEC	M W	9:45:00 AM	11:10:00 AM	Kjeseth	Lars
MATH-67-0352	MBA 220	LAB	T TH	9:45:00 AM	11:10:00 AM	Kjeseth	Lars
MATH-130-0624	MBA 211	LEC	T TH	2:15:00 PM	3:40:00 PM	Ross	Kristin
MATH-150-0681	MBA 213	LEC	T TH	9:05:00 AM	11:10:00 AM	Ross	Kristin

II. DCC

Curriculum:

Course Reviews Completed this semester:

- Math 165
- Math 270
- Math 50 - Inactivation

Courses Reviews In process (at CCC level, and expected to be completed this semester):

- Math 120
- Math 150
- Math Academy courses: 17A, 27A, and 47A --- Passed Department vote

Course Reviews In process (at CCC level, not sure when it will be completed):

- Math 99

Course Reviews Planned for next semester:

- Math 37
- Math 67
- Math 160 Inactivation (maybe)

III. DLOACC

All SLO/PLO reports for Fall 2015 are due in TracDat on Friday 2/5/16.

-TracDat training sessions for entering reports

Wed. 12/2 from 3 to 4 pm

Tues. 12/8 from 1 to 2 pm

Wed. 12/9 from 3 to 4 pm

All Training are in the Library Basement

-Committee's assessing for Spring 2016

Committee D assessing SLO #4

CM2 assessing SLO #1

CSCI 12, 30 and 40 assessing SLO #3
 ENGR SLO #1 & PLO #1
 CM3 Math 115 & 116 assessing all SLO's and all PLO's

-Spring 2016 SLO questions are due Friday 1/22/16

IV. **CM1**

- 1) CM1 Program Review is happening in Spring 2016. Our first meeting will be scheduled very early in the semester. A student survey will be administered early in the Spring semester.
- 2) SLOs are in progress. All CM1 courses are being assessed this semester. All assessments should be turned into the appropriate SLO coordinator at the end of the semester.
- 3) Textbooks. In the Spring CM1 will decide whether or not to roll over to the new McKeague Trig text effective in the Fall 2016 Semester. Additionally, we will consider whether or not to roll over the Stewart Precalc text effective in Fall 2016.

V. **CM2**

- 1) CM2 e-voted (14 yes and 2 abstentions) to approve a 1-year experiment of offering a couple of Math 150 hybrid large lectures to try to meet the increasing number of Statistics students. This is most likely to start in Fall 2016 (pending ECC's approval).
- 2) Linda submitted the following recommendations from CM2 for our annual program plans (ranked from high to low):

<p>1. Increase the number of sections of Math 150 by offering additional sections of evening, weekend and/or hybrid (particularly large lecture classes), scheduling the dedicated classrooms efficiently, and offering more sections during the summer sessions. We can start by offering 80 sections per year (including summer) and then increase (or decrease) as necessary. (THIS IS A REVISION of 2014 Program Review Recommendation 5)</p>	<p>\$10,500 per additional regular Math 150 class and \$13,000 per additional large lecture hybrid</p>	<p>Strategic Initiatives: B, E, G</p>
<p>2. We recommend hiring 3 full-time faculty members in the next 2 years who are capable of teaching all levels of mathematics, in particular General Education transfer-level courses (Math 120, Math 130, Math 140, Math 150 and Math 165) to fill in staffing needs. The average cost for hiring a full-time faculty member including the cost of health care and pension is approximately \$90,000/year. (THIS IS A REVISION of 2014 Program Review Recommendation 9)</p>	<p>\$270,000 for hiring 3 full-time faculty including cost health care care and pension</p>	<p>Strategic Initiatives: A, B, E</p>
<p>3. The General Education Mathematics Program recommends that the College provide students and faculty the bare necessities, such as: Classrooms: erasers, pencil sharpeners, emergency landline phones Common areas: printers, scanners, clocks, pencil sharpeners, dry erasers (THIS IS 2014 Program Review Recommendation 4)</p>	<p>Total estimated cost for classrooms is \$2,645 and for common areas is \$6,000</p>	<p>Strategic Initiatives: A, F</p>

<p>4. Funding should be established to maintain existing equipment and purchase new equipment as needed (document readers, laptops, computers), retain currency (license renewals of <i>Mathematica</i>, <i>Scientific Notebook</i>), and provide for new and innovative technologies (tablet PCs, SMART boards, InterWrite pads, clicker sets) in the classrooms, computer labs, tutoring center, and faculty offices. (THIS IS 2014 Program Review Recommendation 7)</p>	<p>Estimated between \$100,000 and \$150,000</p>	<p>Strategic Initiatives: A, F, G</p>
<p>5. We also recommend that faculty computer laptops be replaced to keep up with the technological upgrades. (THIS IS 2014 Program Review Recommendation 2)</p>	<p>\$500 - \$1,000 per new laptop for FT faculty</p>	<p>Strategic Initiatives: A, F, G</p>
<p>6. Funding for professional development workshops or conferences be provided to focus on using iPad or tablet technology in General Education Math Courses. (THIS IS A REVISION of 2014 Program Review Recommendation 13)</p>	<p>Anywhere from \$5,000-\$8,000 per semester</p>	<p>Strategic Initiatives: A, C, F</p>
<p>7. Hire a full-time tutoring coordinator in our Math Study Center to plan, develop and coordinate a comprehensive tutoring program to support students and student success in the Mathematical Sciences Division. Depending on education and experience, the annual salary including benefits is approximately \$90,000. (THIS IS 2014 Program Review Recommendation 8)</p>	<p>Annual salary estimated to be \$90,000</p>	<p>A, B, C, E, F</p>

VI. CM3

VII. CMD

VIII. Academic Senate Update

- 1) We are in continued discussion related to Title IX requirements and new regulations involving the reporting of sexual misconduct. Due to the new regulation requiring faculty to report such incidents, a syllabus statement is being authored that should explain the regulation. The statement is in the process of being presented to the Union and will be made available soon.
- 2) With the upcoming dissemination of new faculty laptops, faculty have a choice of getting a laptop or tablet pc. Stay tuned for email notices regarding new tablet and laptop workshops to orient faculty less familiar with using the features unique to tablet pcs.
- 3) Some minor language adjustments / updates have been brought before Senate regarding academic renewal policy, students rights and grievances, and the securing / use of copyright materials. BP/AP 4240 Academic Renewal policy was cleaned-up and Title 5 updates were made for this procedure. The revisions passed unanimously. To any faculty interested in seeing the revisions – please email me and I'd be glad to forward you the documents.
- 4) Some language was updated with regards to AP 5530, Student Rights and Grievances. There is no corresponding board policy. The first reading generated a lot of discussion and will be brought back after further discussion with William Garcia and the Union. This is the first reading with regards to the Securing and Use of Copyright materials (BP/AP 3710 and BP/AP 3750). A topic of much discussion was the separation and definition of intellectual property vs. copyright material.

IX. Tutoring Committee

- 1) We have continued to hire more tutors for both the classroom positions and the center.

- 2) We have started a discussion on whether the duties of classroom tutors should be amended to include basic grading.
- 3) We have continued discussing a possible evaluation form for classroom tutors so that faculty can provide feedback about the tutors they work with.
- 4) We are still looking for faculty volunteers (flex credit available) to help out in the tutoring center around finals time. We will be announcing via email the scheduling procedure for this.

Protocol for Power Outages

In the event of a campus-wide power outage, the following procedures will be implemented if the outage occurs during daylight hours:

1. The President, Vice Presidents, Police Chief (as Incident Commander), Community Relations Director, and other designated Emergency Operations Center (EOC) Managers, will immediately meet in the EOC to monitor the situation.
2. The Incident Commander will direct communication with Building Captains via radio/walkie talkie. Communication will take place hourly or more frequently based upon information received from Edison.
3. Building Captains and Floor Leaders will check all elevators in their assigned building to determine whether individuals are trapped and communicate any emergency situations immediately to the EOC.
4. If safe to do so and with permission from the EOC, staff who work where ambient light is available will stay in their offices and perform work that does not require electronic devices (e.g. cleaning, filing, reading) or use a battery powered laptop for work requiring Microsoft software.
5. With permission from the EOC, staff who do not work in areas with ambient light will relocate to an area with light to perform their work as described in #4.
6. Classroom teachers in rooms with ambient light may continue teaching; others may relocate their classes outside if possible or dismiss their classes. If class is dismissed, teachers should inform the Dean and follow the protocol established for staff.
7. If email messaging is possible, students will be apprised of the power outage and asked to reschedule any counseling appointments and to check for class cancellations. Any classrooms without ambient light should be listed in the email as a possible class cancellation.
8. In the event the power outage lasts more than one hour, the Emergency Managers in the EOC will assess the anticipated length of the power outage and determine whether classes will be cancelled.
9. If it is determined that the power outage will persist beyond four hours, all classes will be cancelled and employees released from work except those needed to maintain health and safety and to provide leadership. The Community Relations Director, or designee, will prepare a Nixle alert to notify students of the campus closure.

10. If the power outage occurs during evening hours or during severe weather, classes will be cancelled and staff and faculty will be released to return home. The Community Relations Director, or designee, will prepare a Nixle alert to notify students of the campus closure.

Follow-up Actions	Timeline for Completion
1. Inventory all buildings to identify areas with ambient lighting that can accommodate staff dislocated from dark offices.	October 30, 2015
2. Identify all classrooms with no ambient light and maintain the listing for email communication with students if partial cancellation of classes is advised by EOC.	October 30, 2015
3. Identify all flushable toilets on a map which will be distributed to all faculty and staff.	November 1, 2015
4. Provide offices and classrooms with no ambient lighting with crankable torches.	November 30, 2015
5. Offices with laptops will be instructed to keep the battery charged.	Include in protocols
6. Confirm that Edison has the college on the proper grid for notification and emergency assistance.	October 19, 2015
7. Distribute agreed upon protocols to all employees.	November 10, 2015

Maaza, Marta

Subject: FW: ECC STEM Program

Importance: High

Hello Deans:

The ECC STEM Program staff are currently planning spring STEM-related activities, which will include STEM Week (April 4th-7th) and Spring STEM Speaker Series (starting February 3rd). For these activities, we want to have various presenters with a STEM background make a presentation on interesting topics for our student population. We are asking all Deans that fall under the ECC STEM umbrella to help us recruit speakers by requesting your faculty to provide or recommend colleagues for this great opportunity to share their work with our students. We are expecting a diverse pool of STEM speakers and would greatly appreciate any assistance your faculty can provide.

Please reach out to your faculty and have them inform me of any potential speakers that they may have in mind or if they are interested in presenting their own work to our students. I can be reached via email eccstem@elcamino.edu or phone x3548.

Thank you in advance for your support in this effort.

Kimberly
STEM Program Coordinator

El Camino College STEM Program
(310) 660-3593 x3548
eccstem@elcamino.edu
<http://www.elcamino.edu/academics/stem/>

*Join us as we toast the holidays and
the retirement of Greg Scott*

Mimi's Café

25343 Crenshaw Blvd, Torrance, CA 90505

Friday, December 11, 2015 at 7:00 pm

Price: \$30 per person

Price includes tax, gratuity, entree, soup or salad,
soft drinks, coffee and dessert.

Entrees:

- 1). 10 oz. Steak and Frites
- 2). Grilled Atlantic Salmon
- 3). French Pot Roast
- 4). Chicken and Frites
- 5). Vegetarian

Additional contributions for a gift are requested

Please contact the following for payment by Tuesday, December 1:

Susanne Bucher (sbucher@elcamino.edu)
or Junko Forbes (jforbes@elcamino.edu)

Cash or checks (payable to Susanne Bucher)

Please sign up on the sheet posted in mailroom



TO: All El Camino College Instructors
DATE: May 7, 2015

FROM: Espe Nieto
Assistant Director, Admissions and Records

SUBJECT: FINAL GRADE PROCESSING, SPRING 2015 – MAJOR CHANGES – PLEASE READ IN FULL

NOTE: THERE ARE MAJOR CHANGES TO THE SUPPLEMENTAL DOCUMENTATION PROCESS – PLEASE READ BELOW

MAJOR CHANGE – INSTRUCTORS MUST TURN IN ALL SUPPLEMENTAL DOCUMENTATION TO THEIR DIVISION OR DEPARTMENT OFFICE, NOT ADMISSIONS.

You are expected to turn in to YOUR DIVISION OR DEPARTMENT OFFICE the following paper copy materials:

1. Permanent Grade Record (white)
2. Attendance Roster (yellow)
3. Attendance Roster (green)
4. Positive Attendance Reports for classes designated as positive attendance

All Supplemental Documentation must be submitted to THE DIVISION OR DEPARTMENT office either by:

1. Dropping them off in THE DIVISION OR DEPARTMENT Office;
2. Sending them via office mail; or
3. Mailing them directly to the DIVISION OR DEPARTMENT office via U.S. mail. Please note that these supplemental documents must be received Friday, May 29, 2015. Please send the package to:

El Camino College
YOUR DIVISION OR DEPARTMENT NAME HERE
16007 Crenshaw Boulevard
Torrance, CA 90506

DEADLINE TO ENTER GRADES IS SEVEN CALENDAR DAYS FROM YOUR LAST CLASS MEETING

Grades can only be submitted online through the ECC Portal; they will not be entered manually by Admissions.

Grades can be submitted online through the ECC Portal using the "Grading" link OR "Gradebook Select Section" link.

Assistance in Submitting Grades

If you encounter any problems or need additional information on accessing the portal, please contact the El Camino College Information Technology Services Help Line at: (310) 660-6571 or HELPDESK@elcamino.edu.

For assistance submitting the grades online, please contact the Innovation Center at extension 6730.

For questions regarding submitting your supplemental documentation, call Mr. Devon Scott in the Admissions Office at 310 660-3593 extension 6161.

Information Required in Grade Records

By Agreement between the Academic Senate and the Office of Instruction, it is requested that all faculty observe certain rules so that the records (a) are fairly uniform, (b) can be electronically stored and (c) can be easily interpreted years later.

Specifically, we ask that grade records:

1. Include a complete record of grades used to determine semester grades for each student. The policy has been to require at least three supporting grades, in addition to the final grade.
2. List incomplete grades and "I-(letter grade)", according to the grading policy – "IB," "IC," "ID," or "IF". Instructors must also select a reason for assigning an incomplete grade.

Exceptions to these rules should be approved by your division dean before submitting supporting documentation to the Admissions office.

Delinquent Grades

Due to the MIS reporting requirements of the Chancellor's Office, we need to be diligent in the collection of grades. Therefore, a delinquent grade report will be submitted to all academic deans and the vice-presidents after the deadline to submit grades has expired. All delinquent (blank) grades for the semester will be changed to RD (report delayed). Subsequently, the instructor of record will need to submit an individual grade change for each student with an RD.

Policy Regarding Retroactive Drops

Grades of "W" assigned by the instructor after the deadline to drop with a "W" will not be honored. Instead, "W"s assigned after the deadline to drop will be recorded as "F"s in the system. El Camino College Board Policy 6130 prohibits dropping students after the withdrawal date of the session.

Pass/NoPass

Assign only if course grading method is designated as Pass/No Pass (Credit/No Credit).

Positive Attendance Sheets

Positive attendance sheets must be turned in to the Admissions office within ten days after the end of your class section end date. Instructors with questions regarding positive attendance should contact Ms. Lujana Washington in the Admissions Office at 310 660-3593 extension 3229.

Emergencies

Please notify your academic division or department office if an emergency prevents you from meeting the submission due dates.

FINAL GRADE PROCESSING, SUMMER 2015

Grades can only be submitted online through the ECC Portal using the "Grading" link OR "Gradebook Select Section" link; they will not be entered manually by Admissions.

Instructions for Submitting Final Grades using ECC Gradebook "Gradebook Select Section" link:

1. Log on to the MyECC portal using the same login ID and password used for ECC email.
2. Click the "Gradebook Select Section" link in the Faculty Information box.
3. Select your course.
4. Select "Final Grading" link
5. Click "Submit" button. Once you click "Submit" you will see a screen titled "Grading Confirmation".
6. Scroll to the bottom and click "OK." You will receive an email confirmation to your ECC email, listing the student's names and their final grades. **Once you click "OK," you cannot change any grades online.**
7. Print out "Score Overview" view AND "Final Grading" view as your Supplemental Documentation for grades and documentation.
8. Print out "Attendance Report" as your Supplemental Documentation for attendance documentation.
9. Turn in your "paper copy" Supplemental Documentation

All Supplemental Documentation must be submitted to THE DIVISION OR DEPARTMENT office either by:

1. Dropping them off in THE DIVISION OR DEPARTMENT Office;
2. Sending them via office mail; or
3. Mailing them directly to the DIVISION OR DEPARTMENT office via U.S. mail. Please note that these supplemental documents must be received Thursday, August 20, 2015. Please send the package to:

El Camino College
YOUR DIVISION OR DEPARTMENT NAME HERE
16007 Crenshaw Boulevard
Torrance, CA 90506

For questions on the ECC Gradebook, contact (310)660-3593 X6452

Maaza, Marta

From: Maaza, Marta
Sent: Friday, November 13, 2015 9:43 AM
Subject: Math Involvement in Onizuka Day - December 1

If you're interested in participating in Onizuka Day, there will be a meeting on **Tuesday, December 1, 1:00pm – 2:00pm** in **MBA 118** to finalize the Math Department's involvement in Onizuka Day.

Please read below for more details.

Thanks,
Marta Maaza
Administrative Assistant
Mathematical Sciences Division

From: Martinez Alice
Sent: Thursday, November 05, 2015 2:01 PM
To: Maaza, Marta <mmaaza@elcamino.edu>; Sims Jacquelyn <jsims@elcamino.edu>
Subject: onizuka space day at el camino 2016

Jackie-

We met today. We had the following attendees:

P. Yun
C. Schult Roman
D. Eldanaf
N. Koch
L. Schreier (spelling?)
L. Wang
Me
D. Fanelli

We have the following ideas going:

Paul's colonizing Mars (which he usually does)

Catherine want to do: measuring the height of the egg drop - using something they build

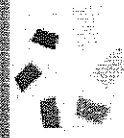
Dominic : coming up with something on time dialation

other ideas floating around:

mathmagic
dominoes
Logic puzzles
powers of ten
einsteins dreams

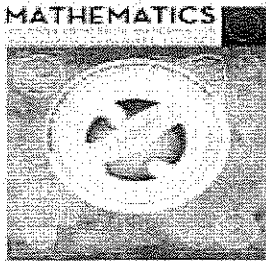
YOU'RE INVITED!

EL CAMINO COLLEGE DIGITAL CAFÉ WITH FACULTY PARTNER, YVETTE HASSAKOURSIAN.



CENGAGE Learning®

Experience the ALL NEW Enhanced WebAssign Course for Aufmann, Journey that takes students from Basic Math to Intermediate Algebra for a ONE-TIME price of \$69.00!



- 6,631 EWA Exercises
- 5,611 Watch It instructional videos
- 368 Video Example Questions (Dana Mosely Only)
- 497 Videos in Resource Tab (Both Dana Mosely & Rena Petrello)
- 2,445 PSP Review Questions w/2,445 videos
- FREE YouBook
- FREE Student Guided Workbook PDFs
- FREE Lecture PowerPoints
- FREE Nolting Study Skills Survey/Assignments

The PRICE Is RIGHT!

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DETAILS

WHEN: Monday, November 30, 2015 @ 1:00 – 2:00 PM

WHERE: MBA 215

DETAILS: Food will be provided by Cengage Learning
Special Guest – Faculty Partner, Yvette Hassakoursian, Glendale CC

Questions? Email Lailee for details. Lailee.PowersSpiker@cengage.com.

We hope to see you there! It will be a good and informative meeting!



Leonardo
Hernandez



Ethan
Liang

Cloud Based Autonomous Cooperative Vehicle Control System

Chris I. Baek, William P. Smith, Langston R. Chandler, Jianfeng Wang, Ethan Liang, Leonardo Hernandez, Arjun Mahajan, William J. Kaiser

Recent advances in computing and embedded sensing have given rise to autonomous vehicle technology. If current trends continue, by the year 2044, envisioning a country where the majority of vehicles on the road are autonomous will be very feasible. This will eventually pose a serious computational challenge to the average embedded vehicle computer, which will be responsible for an increasingly greater number of decisions, all of which will be uninformed by, and independent of, other vehicles.

Instead, we envision a new system that aims to exploit the Internet of Things paradigm in order to make decision-making amongst autonomous vehicles cooperative via cloud communication. We first outline a simple node based vehicle control algorithm, and then detail a prototype design of an autonomous vehicle control and navigation system using a cloud server and several RC cars embedded with Intel Edison microprocessors and a network of sensors, and discuss our progress in implementing this system.

We further demonstrate possible benefits of this system by placing obstacles within a map and demonstrating cooperative obstacle avoidance and path planning in order to find unencumbered paths for each vehicle. We conclude by comparing this system to modern GPS and evaluating benefits of our system on a real-world scale.



Kamaria
Kermah

Engineering Signal Sequences on the N-Terminus of Salmonella Enterica: 1,2-Propanediol Utilization Microcompartment

Kamaria Kermah¹, Christopher Jakobson², Danielle Tullman-Ercek². ¹*El Camino College, Torrance, CA*, ²*University of California, Berkeley, Berkeley, CA*

The Pdu (1,2-propanediol utilization) microcompartment is a complex protein chamber that encases a specialized metabolic pathway, which *Salmonella enterica* utilizes for its pathogenicity in the human gut. This unique packaging system can be effectively engineered for industrial use as a nanobioreactor or molecule transporter. Pdu microcompartments localize diol dehydratase (also called PduCDE), an enzyme complex encoded by the *pduCDE* genes. This enzyme complex contains a signal sequence on the PduD protein that promotes encapsulation. The N-terminal of the PduD protein contains a hydrophobic motif which serves as signal sequences that localizes diol dehydratase. The variability of this hydrophobic pattern is of importance in engineering microcompartments. Through homologous recombination numerous signal sequences with corresponding hydrophobicity motifs will be engineered into the 5' end of *pduD* genes. Cells will be selected for growth on 1,2-propanediol infused media. Assessing the surviving cell's genome, will clarify the role of protein patterns in localization. This information can be utilized for engineering synthetic microcompartments to produce biofuels, clean forms of energy and chemicals of interest.



Mariella
Arias

A PEDOT: PSS Process on Textiles for Health Monitoring

Faculty Mentor(s): George Malliaras, Professor and head of bioelectronics department, Centre Microélectronique de Provence, Ecole Nationale Supérieure des Mines de Saint-Étienne. Student: Mariella Arias

Wearable electronic textiles are good candidates for achieving low cost, flexible, and light-weight health monitoring devices. The integration of biocompatible organic polymers, such as poly(3,4-ethylenedioxythiophene):polystyrene sulfonate (PEDOT:PSS), and ionic gels with textiles allows for the development of conformable and high performance electronics for cutaneous applications. For these reasons, we developed a fabrication process for PEDOT:PSS based electrodes. Such electrodes were used for recording electrocardiography (ECG) activity and for developing an electrochromatographic display of such activity. An ionic liquid gel was used to aid in the electrochemical doping and de-doping of the PEDOT:PSS electrodes. Color changes on the electrochromatographic display were analyzed via optical spectroscopy. The PEDOT:PSS electrodes were also used as capacitive pressure sensors, with polydimethylsiloxane (PDMS) as dielectric, for physiotherapeutic applications. Textiles as capacitance sensors are promising for physiotherapy applications as we are able to detect applied pressures within the range of 0.1N to 200N, which is the ideal range for such applications. Results obtained using this process pave the way for technology which can be further integrated on an electronic textile glove that can perform several health monitoring tasks at once.



Eduardo
Chavez

Impact of Image Format on Flash Storage Efficiency

Eduardo Chavez, Shaodi Wang, Puneet Gupta

In today's electronic market, flash based memory device, such as Solid state drives (SSD), USB drives, micro-SD and SD card, are replacing traditional magnetic based memory (e.g. hard disk drives) due to the performance advantage of flash devices. However all flash based memory devices are subject to failure due to the endurance of a memory block. Endurance is the end-of-life parameter that vendors use to measure the maximum program-erase cycles that a memory block can afford before functional failure (i.e., a SSD may lose the stored information when its flash devices are programmed and erased more than the limit times). In this research, I was to observe a video feed, capture images in one second intervals, write a C++ program to store the image's information into blocks, and make a linear comparison between the blocks of the adjacent images. The purpose of this method was to observe the way information was stored in memory blocks in order to discover a way to minimize the program and erase cycles which could contribute to maximizing the endurance of flash based memory devices.



Jesse
Villalobos

Strain Rate Behavior and Modeling of UCLA Foam

Jesse Villalobos¹, Brian Ramirez², Professor Vijay Gupta Ph.D.², El Camino College Department of Mathematical Sciences¹
UCLA Mechanical and Aerospace Engineering Department²

Elastomeric foams of varying densities are of great interest for the reduction in structural damage and injuries generated by dynamic forces. However, the impact mitigation properties of foams depend largely on the rate at which the material is strained. In the present work, the stress-strain behavior of newly developed UCLA foams are investigated under low (10^{-2} s^{-1}) and medium strain rates (10^2 s^{-1}). Additionally, the force-time response of UCLA foams at an impact energy of 5J are compared to Finite Element simulations based on the stress-strain results previously obtained. Modeling the impact behavior of strain rate sensitive foams can be used to design new materials for emerging impact applications.



Erick
Quintanilla

Bridging Real-Time NDN-CXX Based Applications with the Named-Data Network Simulator

Erick Quintanilla, Alex Afanasyev, Spyridon Mastorakis, Yingdi Yu, Lixia Zhang

Unlike the current Internet model, Named-Data Networking (NDN) is a network infrastructure that is built to handle and manage today's large demand of data transactions. In order to examine the robustness and versatility of NDN, researchers of the Internet Research Laboratory at UCLA designed an open-source simulator called ndnSIM. What the simulator currently lacks is a method of emulating real-time applications that are constructed with an NDN foundation, which is why this project is a priority for continuing the growth and expansion of NDN. The task at hand involves creating an event-loop interface that allows seamless communication between the simulator and the application. However, this feature met complications that stemmed from ndnSIM's lack of native expandability.



Edlin
Gonzalez

Geology and Paleontology of Lomita Quarry

Student, Edlin Gonzalez; Advisor, Joe Holliday

The Lomita Quarry in Rolling Hills Estate, is being developed to feature 114 luxury homes and a brand new golf course. The quarry features a 300 ft. pit that was once the place to buy limestone, sand and gravel. On the site, my job is to search for any geological features, differences and paleontological finds that can be added to the Palos Verdes geological record. While looking for these paleontological finds, I am able to identify the different sediments in which these occur and with this estimate the time in which they were deposited. Many paleontological items have been found so far: a mammal bone, a vertebrae bone, shark teeth and shells. The site is also home to archeological sites that are expected to have some cultural finds as well, as the Gabriëño tribe once lived and thrived in the area.

**Division of Mathematical Sciences
Fall 2016 Schedule Preferences: Full-time faculty**

Name:		
Paid overload ok? Yes / No	Number of preparations preferred	4 3 2
Previous semester load?		

Specific courses preferred. One course per line. List all 5. **For 191, 220 and 270, list all preferences on a single line**		Recent semesters taught
1st choice		
2nd		
3rd		
4th		
5th		

Courses that need full-time staffing CHOOSE AT LEAST THREE	12	23	37	40	60	67	73	80	120	130	140	150	170
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For MATH 40 and MATH 73, preferred class size	Normal: 35	Large lecture: 53-69
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Mon—Fri schedule preference. List priorities 1st, 2nd, 3rd, . . .	
	Morning and Afternoon
	Afternoon and Evening
	Other (describe)
What is the most important consideration? Courses, days, times, preps, rooms etc.)?	

Room Preference (Please circle)
Black board or White board
Rows/Columns or Group Format
Other (describe)

Please use the time grid on the reverse side to indicate your specific time availability. Use this space or a separate sheet of paper to provide any other considerations (teaching teams, desire for Supplemental Instruction support, etc.) when the schedule is prepared.

**Due Date: December 1, 2015
Return to Marta Maaza/Division Office**

**Division of Mathematical Sciences
Fall 2016 Schedule Preferences: Full-time faculty**

NAME (Please print)

Please write "YES" or "NO" to indicate your time availability for each of the **scheduling patterns**.
(You may also mark your most preferred times)

	MW	MWF	TTh	MTWTh
7 – 8 AM	*			
8 – 9	*			
9 – 10	*			
10 – 11	*			
11 – 12	*			
12 – 1 PM	*			
1 – 2		*	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
2 – 3		*		*
3 – 4		XXXXXXXXXXXXXX		*
4 – 5		XXXXXXXXXXXXXX		*
5 – 6		XXXXXXXXXXXXXX		*
6 – 7		XXXXXXXXXXXXXX		*
7 – 8		XXXXXXXXXXXXXX		*
8 – 9		XXXXXXXXXXXXXX		*
9 – 10 PM		XXXXXXXXXXXXXX		*

*small number of classes at these times

X=no classes offered at these times

A small number of sections meet once a week or twice on the weekend.

Would you be interested in any of the following?

Friday morning Yes _____ No _____

Fri/Sat morning Yes _____ No _____

Saturday morning Yes _____ No _____

**Due Date: December 1, 2015
Return to Marta Maaza/Division Office**

Division of Mathematical Sciences
Fall 2016 Schedule Preferences: Full-time faculty

NAME (Please print)

Please use this space and the fall 2015 schedule (posted online or see schedule of classes) to provide three examples of your preferred schedule.

Example:

Math 23 (0200) MW 10:45 a.m. – 12:50 p.m.

Math 180 (0832) MW 1:00 p.m. – 3:30 p.m.

Math 73 (0402) TTh 10:00 a.m. – 12:30 p.m.

Your Example 1

Your Example 2

Your Example 3

Due Date: December 1, 2015
Return to Marta Maaza/Division Office