El Camino College

Division of Mathematical Sciences

Flex Day Agenda – Spring 2016

January 14, 2016

- Start of Semester Prep
- Committee Updates
- Hiring Updates
- Grades and Documentation
- Calculators
- Start of Semester Prep
- Spring Evaluations
- Textbook Requisitions
- Protocol for Reporting Equipment Malfunctions
- AB 86 Adult Education
- Common Assessment Initiative
- Math 80 Challenge Exam
- Student Club Advisors
- Classroom Chair Formation Protocol
- Counselor Presentations
- Announcements
- SEP Data Activity

EL CAMINO COLLEGE MATHEMATICAL SCIENCES DIVISION FLEX DAY MEETING January 14, 2016

Present: Edwin Ambrosio, Eduardo Barajas, Michael Bateman, Lynn Beckett-Lemus, Susan Bickford, Carl Broderick, Susanne Bucher, Jeffrey Cohen, Jill Evensizer, Dominic Fanelli, Greg Fry, Milan Georgevich, Massoud Ghyam, Megan Granich, Hamza Hamza, Arturo Hernandez, Linda Ho, Anna Hockman, Judy Kasabian, Lars Kjeseth, Bob Lewis, Marta Maaza, Zach Marks, Art Martinez, Matthew Mata, Bonnie Mercado, Ashod Minasian, Benjamin Mitchell, Kaysa Moreno, Jasmine Ng, Catherine Schult-Roman, Aban Seyedin, Ambika Silva, Jacquelyn Sims, Satish Singhal, Ralph Taylor, Susan Taylor, Susan Tummers-Stocum, Lijun Wang, Paul Yun

INTRODUCTIONS

Linda Ternes is the new Associate Dean of Mathematics.

Edwin Ambrosio will be a temporary full-time instructor for Computer Science during the current semester.

Fareshta Nazif is the new student worker for the Math Division front office.

START OF SEMESTER PREP

Registration has been extended to midnight on 1/15/16. Recommendation to print out rosters after this date to ensure they are accurate and most up to date.

A list of open classes with five or more available seats was provided and will be posted throughout the building for students.

A few classes have been added to the schedule.

Two Math 73 hybrid courses were cancelled and replaced with one non-hybrid Math 73.

Instructors should distribute Add Codes as early as possible so students enroll before the deadline. Late add petitions are not generally approved.

Rosters should be reviewed on a regular basis to make sure students are using their Add Codes.

Most classes outside of large lectures and Computer Science labs have a capacity of 35 students, but no more than 40. For large lectures, maximum enrollment is 69 students.

COMMITTEE UPDATES

<u>DLOACC</u> - SLO reports are due by 2/5/16. Three are complete. Two PLO reports are incomplete and also due 2/5/16. S. Bucher will send out the TracDat training dates and a step-by-step process on how to enter reports. SLO coordinators should enter follow-ups on any action items. Course Coordinators should submit SLO questions by 2/5/16.

- Committee D SLO 4
- CM 2 SLO 1
- Engineering SLO 1 and PLO 1
- CS 12, 30 and 40 SLO 3

<u>DCC</u> – Python (CS 14) was approved as a new course. Instructors should be working on new course proposals during the spring semester in order to meet the curriculum calendar deadlines.

<u>CM 1 and Committee D</u> – Working on Program Review. Both committees have a meeting scheduled on 1/28/16 at 1pm.

<u>CM 2</u> – Working on SLO 1. The first meeting is 2/4/16. The second CM 2 meeting will be scheduled to discuss Honors Statistics.

<u>CM 3</u> – No updates.

<u>Tutoring Committee</u> – New tutor training will be on 1/22/16. The committee will be asking for volunteers.

HIRING UPDATES

The math hiring committee was formed. Applications are ready for review but the committee must first meet to discuss and approve interview questions before HR provides access to the applications.

The CS Department will put together a hiring committee.

Dean J. Sims recommends to have a math part-time hiring after the full-time screening is completed. The math part-time hiring committee is still considering when to post the position.

GRADES AND DOCUMENTATION

With the help of instructors who informed the division of students that were forecasted as passing but didn't, we discovered 75 students that were attempting to move on to next level of Math although they had not passed the prerequisite.

Instructors who have not submitted their grades should submit them to the Division Office ASAP.

CALCULATORS

The Division was awarded \$25,000 for classroom sets of calculators based on the recommendation of several committees. The calculators are in the Division Office. If instructors would like to check out a classroom set for the semester, contact the Division Office.

Copies of calculator loan forms were left in instructor mailboxes. Reminder to use the current version of the form otherwise the library will not accept it.

SPRING EVALUATIONS

Evaluation packets and assignments will be ready by the start of the second week.

TEXTBOOK REQUISITIONS

B. Mercado provided a reminder of what items are needed to complete a book requisition for the Bookstore:

- Publisher ISBN this will help avoid ordering the wrong book
- Publisher contact representative information

Inform B. Mercado by week three if your committee is going to change book editions or request a new book.

New textbook adoptions are due by 3/4/16.

The Bookstore is requesting that requisition be entered in the system so students can view the required textbooks during the registration period.

The front office will discuss alternative timelines for instructors that do not use the Bookstore.

PROTOCOL FOR REPORTING EQUIPMENT MALFUNCTIONS

The Repair/Technical Issue Support form shows the questions the front office must answer when requesting equipment repair. Provide the front office with as much detail as possible when reporting an issue.

At some point the projectors bulbs will go out at the same time. Dean J. Sims will remind the VPs of this, although they have been informed.

Media Services tracks the hours of life each bulb has.

AB 86 ADULT EDUCATION

The goal of AB 86 Adult Education is to create a curriculum preparing adults for transfer to ECC.

Funding is available for those interested in helping revamp the Adult Education curriculum.

Jose Anaya will have a meeting with more information on this initiative. As of now, it is a work in progress.

COMMON ASSESSMENT INITIATIVE

L. Ternes is involved with the Common Assessment Initiative (CAI).

The assessment test that CAI is rolling has extreme importance. A timeline was developed after the legislation passed and the common assessment was supposed to be in full implementation this fall, however, field-testing has not occurred. Colleges will continue what they have been using until CCC Assess is in full implementation.

Based on research, multiple measures do not work for international, reentry or out-of-state students.

L. Ternes will be chairing the CAI Committee.

MATH 80 CHALLENGE EXAM

The Division Office is still receiving petitions for students who took Math 73 but changed to a STEM or Business major.

Dean J. Sims has been using multiple measures to assess the petitions.

There is a need for a Math 80 challenge exam. J. Forbes will lead this initiative. A draft of the exam was created and the next step is to do a norming to determine the cutoff score.

Math 73 students have been reminded of the differences between Math 73 and 80.

STUDENT CLUB ADVISORS

B. Mitchell is the advisor of the ECC Math Club geared towards math-oriented talks.

L. Kjeseth and J. Cohen are co-advisors for a Math Engagement Club. There was one talk last fall and there has been an interest in having talks/tutoring at various prisons. S. Bucher is the Advisor for the Chess Club.

S. Singhal is the advisor for the Robotics Club. There are three competitions on campus.

CLASSROOM CHAIR FORMATION PROTOCOL

Half of the classrooms will continue how they have been (each instructor sets up room in their own preferred way). A listing was provided of the other half of classrooms that have formation specific designation for the chairs and desks. An instructor is still free to rearrange as they prefer, but when they leave the room, the room should be arranged as designated.

ANNOUNCEMENTS

Send B. Mercado office hours.

MESA will be accepting new student applications during the first two weeks of the semester.

SEP DATA ACTIVITY

The SEP Data activity is a set of questions requesting recommendations on what the Division can do to help students become successful.

Mathematical Sciences Division Meeting Dates for Department and Committees - Spring 2016 (Updated: December 9, 2015)

1:00 – 2:00 p.m.	Math Dept. (MBA 219)	CSCI Dept. (MBA 112)	Div Curr Cmte (DCC) (MBA 309)	Div LOACC (DLOACC) (MBA 112)	Division Council (MBA 112)
January 2016	Thurs, 1/14 (Flex Day 10:30am-12pm)	Thurs, 1/28		Tues, 1/26	Thurs, 1/21
February 2016			Tues, 2/2		Tues, 2/9
March 2016	Thurs, 3/3		Tues, 3/1 Tues, 3/29	Tues, 3/22	Thurs, 3/24
April 2016	Thurs, 4/21	Thurs, 4/14		Tues, 4/26	
May 2016		Fri, $5/20$ (Advisory Board Meeting) 11:30am - 2:00 pm	Tues, 5/3		

El Camino College Mathematics Department Calculator Loan Program SPRING 2016

(Student's Name)_	is enrolled in section(Section Number)	of

Math(course) and is approved to borrow a graphing calculator.

A deposit of \$20 and a valid El Camino College student identification card are required. If the calculator is returned, undamaged, by end of the term and no later than Wednesday, May 18, 2016, the deposit will be returned. If the calculator is returned late, is not returned, or is damaged, the deposit will not be returned AND an additional fee of \$100 will be charged to the student's El Camino College account. (Registration and access to records are blocked if the account is not paid.)

(Signature of Student)	(Date)
Instructor's Name)	

Take this signed form to the cashiers' office to pay the deposit*, and then to the library with the receipt. Once you receive the calculator, you must keep your receipt and present it to receive your deposit back when you return the calculator.

* Account #11-29602-00-00000-0000

El Camino College Mathematics Sciences Division Calculator Loan – Information

Any student enrolled in a mathematics course is eligible to check out a TI graphing calculator for the duration of the semester. The supply is limited, so availability is on a first-come, first-served basis.

- A deposit of \$20 and a valid El Camino College student identification card are required.
- If the calculator is returned within three days of the end of the term, the deposit will be returned.
- If the calculator is returned late, is not returned or is damaged, an additional fee
 of \$100 will be charged to the student's El Camino College account.
 (Registration and access to records will be blocked if the account is not paid.).

To obtain a calculator, the student must get permission from his/her instructor and proceed as follows:

- 1. Get a signed Calculator Loan Form from the instructor,
- 2. Take the Calculator Loan Form to the Cashier's Office to pay the deposit (account#11-29602-00-000000-0000) and get a receipt, and
- 3. Take the receipt to the library to check out a calculator.

If you have more questions, contact your math instructor.

TEXTBOOK PROCEDURES

ADOPTING NEW TEXTBOOKS (DIVISION)

- LET BONNIE KNOW BY FRIDAY, FEBRUARY 5TH (WEEK 3) IF YOUR COMMITTEE IS POTENTIALLY UPDATING EDITION OR CHANGING TEXTBOOKS
- AFTER COMMITTEE REVIEW, THE FOLLOWING TEXTBOOK INFORMATION IS REQUIRED TO PROCEED WITH ORDERS:
 - O TITLE
 - o AUTHOR
 - O PUBLISHER
 - O EDITION
 - O ISBN *ISSUED BY PUBLISHER, NOT WHAT IS FOUND ONLINE
 - PRICE QUOTE *ISSUED BY PUBLISHER, NOT WHAT IS FOUND ONLINE
 - CONTACT INFO OF BOOK REP ASSISTING IN THE PROCESS
 *HELPFUL FOR NEW PUBLISHING COMPANIES
- NEW TEXTBOOK ADOPTIONS DUE BY:
 - FRIDAY, MARCH 4TH (WEEK 7)
 - REGISTRATION BEGINS APPROXIMATELY WEEK 10
 - BUILD ORDER FORMS FOR EACH SECTION (OFFICE)
- TEXTBOOK ADOPTIONS SUBMITTED SPRING SEMESTER 2016 WILL BE THE ASSIGNED TEXTBOOK CHOICES FOR FALL 2016 THROUGH SUMMER 2017. CHANGES WILL NOT BE AVAILABLE AFTER SPRING 2016.

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EQUIPMENT FAILURES OR MALFUNCTIONS

✤ PROJECTORS

✤ COMPUTERS

✤ DOCUMENT CAMERAS

CONTACT DIVISION OFFICE

- EMAIL PREFERABLE
 - O HELPS IN TRACKING

REQUIRED INFORMATION

- LOCATION (BUILDING AND ROOM NUMBER)
- EXTENSION
- EQUIPMENT BEING USED
- DESCRIPTION OF WHAT IS OCCURRING

COPY OF WORK ORDER FORM

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MATHEMATICAL SCIENCES DESIGNATED CLASSROOMS FOR ROWS/COLUMNS OR GROUP FORMATION

CLASSROOM	Row/Column or Group
MBA 103	GROUP
MBA 105	Row/Column
MBA 111	Row/Column
MBA 112	Row/Column
MBA 118	Row/Column
MBA 217	Row/Column
MBA 218	GROUP
MBA 307	Row/Column
MBA 311	Row/Column
MBA 312	GROUP
MBA 313	Row/Column
MBA 315	Row/Column
MBA 317	Row/Column
MBA 318	GROUP

(FOR ALL OTHER CLASSROOMS NOT LISTED HERE, ONE MAY SET UP THE ROOM ACCORDING TO THEIR PREFERENCE)



EL CAMINO COMMUNITY COLLEGE DISTRICT

16007 Crenshaw Boulevard Torrance, California 90506-0001 Telephone (310) 532-3670 or 1-866-ELCAMINO

LET'S LEARN MORE ABOUT COUNSELING AND STUDENT SUCCESS: Academic, Career, and Transfer

El Camino College Career Center Student Services Center – First Floor 310.660.3593, extension 6137 www.elcamino.edu/studentservices/co/careercenter/index.asp

January 4, 2016

Dear Faculty:

Welcome to the spring semester. We would like to arrange for a class presentation for your students highlighting the significance of supporting them in declaring a major, choosing a career, and transferring to a university. The emphasis of the presentation is to educate students on the process for each of these services. Counselors can provide an Educational Plan that outlines the major requirements, transfer requirements, and academic classes based on the students' goal.

Attached is a request form for a class presentation. We are available to provide a general or more detailed presentation based upon your request. Career materials related to your discipline can also be provided.

Please complete the form, mail it back to me, and I will begin scheduling visits to your class. Be sure to allow at least two weeks advance notice to eliminate scheduling conflicts. I will email you a confirmation of the presentation date, time, and counselor. Should you have any questions, please email or call me at extension 6545.

Thank you for your support and contribution to our students' success.

Sincerely,

Toni L. Newman, M.Ed. Career Center Technician tlnewman@elcamino.edu

Cereer Center Coordinator/Career Counselor ycooper@elcamino.edu

El Camino College Counseling and Student Success

Classroom Presentation Request Form

Spring 2016

Instructor:	<u></u>	Email:		Ext
Class	No. of Students	Time/Days	Room	Preferred Dates for Visit Please allow two weeks for scheduling
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Special requests, i.e., beginning or end of class time; general counseling information, career focus or transfer services.

Please return this form to *Toni Newman*, Counseling and Student Success. Thank you.

El Camino College Division of Mathematical Sciences

OPEN CLASSES - SPRING 2016

As of January 13, 2016

	OFORION		INCTOROTO	- DAVE	START	END		
CLASS	SECTION #	ROOM	INSTRUCTION METHOD	DAYS OFFERED	TIME	TIME	INSTRUCTOR	
CSCI 2	0118	MBA 120 MBA 112 MBA 112 MBA 120	LAB LEC LEC LAB	S	8:00 AM 9:40 AM 12:15 PM 2:30 PM	9:25 AM 11:45 AM 2:20 PM 3:55 PM	Nikjeh, Esmaail	
CSCI 3	0124	MBA 120 MBA 219	LAB LEC	MW MW	2:55 PM 4:30 PM	4:20 PM 5:55 PM	Leon, Juan	
CSCI 3	0125	MBA 219 MBA 113	LEC LAB	MW MW	4:30 PM 6:05 PM	5:55 PM 7:30 PM	Leon, Juan	
CSCI 3	0129	MBA 213 MBA 113	LEC LAB	TTH TTH	6:25 PM 8:00 PM	7:50 PM 9:25 PM	Ambrosio, Edwin	
CSCI 12-HYBRID	4815	MBA 118 MBA 120	LEC LAB	S	8:00 AM 11:00 AM	10:20 AM 1:20 PM	Ghyam, Massoud	
ENGR 9	0138	MBA 309	LEC	MW	4:00 PM	5:25 PM	Evensizer, Jill	
MATH 23	0215	MBBM 132	LEC	TTH	4:15 PM	6:20 PM	Bauman, Robert	
MATH 23	0218	MBA 313	LEC	MW	5:30 PM	7:35 PM	Valle, Gerson	
MATH 40	0262	MBA 219	LEC	MWF	8:00 AM	9:15 AM	Meyer, Trudy	
MATH 40	0264	MBA 211	LEC	S	8:00 AM	12:15 PM	Bojkov, Alexander	
MATH 40	0274	MBA 319	LEC	MWF	10:00 AM	11:15 AM	Meyer, Trudy	
MATH 40	0294	MBA 209	LEC	TTH	3:00 PM	5:05 PM	Saakian, Lernik	
MATH 40	0296	MBA 209	LEC	MW	4:00 PM	6:05 PM	Dammena, Dimetros	
MATH 40	0298	MBA 209	LEC	TTH	5:15 PM	7:20 PM	Gizaw, Astatke	
MATH 40	0304	MBA 219	LEC	MW	6:30 PM	8:35 PM	Lee, Michael	
MATH 67	0352	MBA 218 MBA 220	LEC LAB	MW TTH	9:45 AM 9:45 AM	11:10 AM 11:10 AM	Kjeseth, Lars	
MATH 73	0381	MBA 311	LEC	MTWTH	7:00 AM	8:10 AM	Hamza, Hamza	
MATH 73	0430	MBA 319	LEC	MW	5:45 PM	8:15 PM	Martinez, Steve	
MATH 73	0432	MBA 319	LEC	ТТН	6:00 PM	8:30 PM	Mata, Matthew	
MATH 73	0434	MBA 112	LEC	MW	6:30 PM	9:00 PM	Cortez, Marilyn	
MATH 73-HYBRID	4828	MBA 103	LEC	Т	4:00 PM	6:20 PM	Moreno, Kaysa	

MATH 191 0922 MBA 211 LEC MW 6:30 PM 9:00 PM Avakyan, Vage								
MATH 80 OB10 MBA 312 LEC TTH 3:34 PM C1:51 PM Dammona, Zekaras MATH 80 0522 MBA 105 LEC TTH 5:15 PM 7:45 PM Saakian, Lernik MATH 80 0522 MBA 313 LEC TTH 5:30 PM 8:00 PM Ferguson, Tmodry MATH 80 0522 MBA 312 LEC MW 6:30 PM 8:00 PM Barajas, Eduardo MATH 80 0550 MBA 312 LEC MW 6:30 PM 9:00 PM Barajas, Eduardo MATH 115 0566 MBA 209 LIC T 8:00 AM 10:05 AM Kasabian, Judy MATH 120 0580 MBA 105 LEC TTH 8:00 AM Shaba, Azzan Susan MATH 130 0668 MBA 217 LEC TTH 11:15 AM 12:40 PM Georgevich, Mian MATH 130 0662 MBA 211 LEC TTH 11:15 AM 12:40 PM Georgevich, Mian MATH 130 0624 MBA 315	CLASS		ROOM			one only many his is all a sense of the sense	And all the second s	INSTRUCTOR
MATH 80 0520 MBA 105 LEC TTH 515 PM FVR 5PM Saakan, Lemik MATH 80 0522 MBA 313 LEC TTH 515 PM 845 PM Dammena, Dimetros MATH 80 0524 MBA 209 LEC MW 615 PM 845 PM Dammena, Dimetros MATH 80 0530 MBA 312 LEC MW 615 PM 845 PM Dammena, Dimetros MATH 115 0566 MBA 209 LEC MW 615 PM 845 PM Dammena, Dimetros MATH 115 0566 MBA 209 LEC T 8:00 AM 10:05 AM Kasabian, Judy MATH 120 0580 MBA 103 LEC TTH 2:00 PM 3:25 PM Turmmers Stocurn, Susen MATH 130 06616 MBA 217 LEC TTH 2:15 PM 3:40 PM Beargase, Beargae, Huann MATH 130 0662 MBA 217 LEC TTH 2:15 PM 2:40 PM Georgeuich, Mlan MATH 130 0662 MBA 211	MATH 73-HYBRID	4829	MBA 103	LEC	ТН	4:00 PM	6:20 PM	Moreno, Kaysa
MATH 80 0522 MBA 313 LEC TTH 5:30 PM From PM Declame Tranship MATH 80 0524 MBA 209 LEC MW 6:15 PM 8:45 PM Dammana. Dimetros MATH 80 0580 MBA 312 LEC MW 6:30 PM 9:00 PM Barajas, Eduardo MATH 115 05668 MBA 209 LEC T 8:00 AM 10:05 AM Kasabian, Judy MATH 116 0570 MBA 103 LEC T 10:30 AM 12:35 PM Tummers Stoourn, Susan MATH 120 0564 MBA 105 LEC TTH 8:20 AM 9:45 AM Baysaa, Bayene MATH 130 0616 MBA 217 LEC TTH 7:15 AM 8:40 AM Shihabi, Azzam MATH 130 0622 MBA 217 LEC TTH 7:15 AM 8:40 AM Shihabi, Azzam MATH 130 0622 MBA 307 LEC MW 11:15 AM 12:40 PM Georgevich, Mian MATH 130 0628 MBA 307	MATH 80	0516	MBA 312	LEC	ттн	3:45 PM	6:15 PM	Dammena, Zekarias
MATH 80 0624 MBA 209 LEC MW 6:15 PM 8:45 PM Dammena, Dimetroy MATH 80 0530 MBA 312 LEC MW 6:30 PM 9:00 FA Barajas, Eduardo MATH 115 0566 MBA 209 LAS T 8:00 AM 10:05 AM Kasabian, Judy MATH 116 0570 MBA 103 LEC T 10:30 AM 12:35 FM Susan MATH 120 0580 MBA 212 LEC TTH 8:20 AM 9:45 AM Bayssa, Beyene MATH 130 0616 MBA 217 LEC TTH 7:15 AM 12:40 PM Georgevich, Mian MATH 130 0616 MBA 217 LEC TTH 7:15 AM 12:40 PM Georgevich, Mian MATH 130 0620 MBA 307 LEC MW 1:00 PM 2:25 PM Ovanessian, Aida MATH 130 0624 MBA 307 LEC MW 4:10 PM Georgevich, Mian MATH 130 0628 MBA 307 LEC MW	MATH 80	0520	MBA 105	LEC	TTH	5:15 PM	7:45 PM	Saakian, Lernik
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MATH 115 D566 MBA 209 LAB TH St00 AM 10:05 AM Karabian, Judy MATH 116 0570 MBA 103 LEC TH 8:00 AM 10:25 SP Karabian, Judy MATH 116 0570 MBA 103 LEC TH 10:30 AM 12:35 PM Susan MATH 120 0580 MBA 212 LEC TTH 2:25 PM Bayasa, Beyene MATH 120 0566 MBA 217 LEC TTH 2:25 PM Reece, Russel MATH 130 0616 MBA 217 LEC TTH 2:00 PM Georgevich, Mian MATH 130 0620 MBA 211 LEC MW 11:15 AM 12:40 PM Georgevich, Mian MATH 130 0624 MBA 211 LEC TTH 2:15 PM 3:40 PM Ress, Kristin MATH 130 0628 MBA 211 LEC TH 2:15 PM 4:10 PM Georgevich, Mian MATH 130 0638 MBA 213 LEC TH 7:15 PM 8:40 PM	MATH 80	0524	MBA 209	LEC	MW	6:15 PM	8:45 PM	Dammena, Dimetros
MARTH 113 0.056 MBA 209 LAB TH 9:00 AM 10:05 AM Kasabian, Judy MATH 116 0.570 MBA 103 LAB TH 10:30 AM 12:35 PM Tummers Stocum, Susan MATH 120 0.580 MBA 212 LEC TTH 8:20 AM 9:45 AM Baysaa, Beyene MATH 130 0.6616 MBA 217 LEC TTH 7:15 AM 8:40 AM Shihabi, Azzam MATH 130 0.6616 MBA 217 LEC TTH 11:15 AM 12:40 PM Georgevich, Milan MATH 130 0.6620 MBA 307 LEC MW 11:01 PM 2:25 PM Ovanessian, Aida MATH 130 0.622 MBA 307 LEC MW 1:00 PM 2:25 PM Ovanessian, Aida MATH 130 0.632 MBA 307 LEC MW 2:15 PM 3:00 PM Ross, Kristin MATH 130 0.632 MBA 315 LEC MW 2:35 PM 4:10 PM Georgevich, Milan MATH 130 0.632 M	MATH 80	0530	MBA 312	LEC	MW	6:30 PM	9:00 PM	Barajas, Eduardo
MATH 16 C070 MBA 103 LAB TH 10.33 AM 12:35 PM Susan MATH 120 0580 MBA 212 LEC TTH 8:20 AM 9:45 AM Baysa, Beyenc MATH 120 0584 MBA 105 LEC TTH 8:20 AM Shihabi, Azzam MATH 130 0606 MBA 217 LEC TTH 7:15 AM 8:40 AM Shihabi, Azzam MATH 130 0620 MBA 211 LEC TTH 11:15 AM 12:40 PM Georgevich, Mian MATH 130 0622 MBA 307 LEC MW 1:00 PM 2:35 PM Aross, Kristin MATH 130 0626 MBA 307 LEC MW 2:35 PM 4:10 PM Georgevich, Mian MATH 130 0628 MBA 315 LEC MW 2:45 PM 4:10 PM Georgevich, Mian MATH 130 0633 MBA 211 LEC TTH 7:15 PM 3:40 PM Zambrano, Ruth MATH 130 0638 MBA 317 LEC TTH	CLASS MATH 73-HYBRID MATH 80 MATH 115 MATH 115 MATH 116 MATH 120 MATH 120 MATH 130 MATH 150 MATH 150 MATH 150-HYBRID	0566	MBA 209		TH	1		Kasabian, Judy
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MATH 130 0616 MBA 217 LEC TTH 11:15 AM 12:40 PM Georgevich, Milan MATH 130 0620 MBA 211 LEC TTH 11:15 AM 12:40 PM Georgevich, Milan MATH 130 0622 MBA 307 LEC MW 1:00 PM 2:25 PM Ovanessian, Aida MATH 130 0624 MBA 211 LEC TTH 2:15 PM 3:40 PM Ross, Kristin MATH 130 0626 MBA 307 LEC MW 2:45 PM 4:10 PM Georgevich, Milan MATH 130 0638 MBA 315 LEC MW 4:25 PM 5:50 PM Avakyan, Vage MATH 130 0638 MBA 317 LEC W 5:50 PM Avakyan, Vage MATH 150 0681 MBA 213 LEC TTH 9:05 AM 11:10 AM Ross, Kristin MATH 150 0724 MBA 307 LEC TH 2:00 PM 4:05 PM Fogel, Charles MATH 150 0724 MBA 307 LEC F <td>MATH 120</td> <td>0584</td> <td>MBA 105</td> <td>LEC</td> <td>TTH</td> <td>2:00 PM</td> <td>3:25 PM</td> <td>Reece, Russell</td>	MATH 120	0584	MBA 105	LEC	TTH	2:00 PM	3:25 PM	Reece, Russell
MATH 130 0620 MBA 211 LEC MW 11:15 AM 12:40 FM Georgewich, Mian MATH 130 0622 MBA 307 LEC MW 1:00 PM 2:25 PM Ovanessian, Aida MATH 130 0624 MBA 307 LEC MW 2:45 PM 4:10 PM Georgevich, Milan MATH 130 0626 MBA 307 LEC MW 2:45 PM 4:10 PM Georgevich, Milan MATH 130 0632 MBA 315 LEC MW 4:25 PM 5:50 PM Avakyan, Vage MATH 130 0638 MBA 211 LEC TTH 7:15 PM 8:40 PM Zambrano, Ruth MATH 130-HYBRID 4833 MBA 211 LEC TTH 9:05 AM 11:10 AM Ross, Kristin MATH 150 0681 MBA 213 LEC TTH 9:05 AM 11:10 AM Ross, Kristin MATH 150 0724 MBA 307 LEC TH 2:00 AM 1:0:55 AM Manikandan, Thri MATH 150-HYBRID 4838 MBA 120<	MATH 130	0606	MBA 217	LEC	ТТН	7:15 AM	8:40 AM	Shihabi, Azzam
MATH 130 0622 MBA 307 LEC MW 1:00 PM 2:25 PM Ovanessian, Aida MATH 130 0624 MBA 307 LEC MW 1:00 PM 2:25 PM Ovanessian, Aida MATH 130 0626 MBA 307 LEC MW 2:45 PM 4:10 PM Georgevich, Milan MATH 130 0632 MBA 315 LEC MW 4:25 PM 5:50 PM Avakyan, Vage MATH 130 0638 MBA 211 LEC TTH 7:15 PM 8:40 PM Zambrano, Ruth MATH 130 0681 MBA 213 LEC TTH 7:15 PM 8:40 PM Zambrano, Ruth MATH 150 0681 MBA 213 LEC TTH 9:05 AM 11:10 AM Ross, Kristin MATH 150 0711 MBB 130 LEC TTH 2:00 PM 4:05 PM Fogel, Charles MATH 150 0714 MBA 120 LEC F 11:15 AM 1:10 PM Manikandan, Thri MATH 150-HYBRID 4838 MBA 120	MATH 130	0616	MBA 217	LEC	ΤŢΗ	11:15 AM	12:40 PM	Georgevich, Milan
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MATH 130 0632 MBA 315 LEC MW 4:25 PM 5:50 PM Avakyan, Vage MATH 130 0638 MBA 315 LEC MW 4:25 PM 5:50 PM Avakyan, Vage MATH 130 0638 MBA 211 LEC TTH 7:15 PM 8:40 PM Zambrano, Ruth MATH 130 0681 MBA 213 LEC TTH 7:15 PM 8:40 PM Vatison, Christina MATH 150 0711 MBB 130 LEC TTH 9:05 AM 11:10 AM Ross, Kristin MATH 150 0724 MBA 307 LEC TTH 2:00 PM 4:05 PM Fogel, Charles MATH 150 0724 MBA 307 LEC F 9:00 AM 10:55 AM Manikandan, Thri MATH 150-HYBRID 4838 MBA 120 LEC F 11:15 AM 1:10 PM Manikandan, Thri MATH 150-HYBRID 4841 MBA 213 LEC TH 7:00 AM 8:55 AM Lackpour, Matin MATH 150 0760 MBA 217	MATH 130	0624	MBA 211	LEC	TTH	2:15 PM	3:40 PM	Ross, Kristin
MATH 130 0638 MBA 211 LEC TTH 7:15 PM 8:40 PM Zambrano, Ruth MATH 130-HYBRID 4833 MBA 317 LEC W 5:00 PM 6:20 PM Watson, Christina MATH 150 0681 MBA 213 LEC TTH 9:05 AM 11:10 AM Ross, Kristin MATH 150 0711 MBBM 130 LEC TTH 2:00 PM 4:05 PM Fogel, Charles MATH 150 0724 MBA 307 LEC MW 5:30 PM 7:35 PM Hermer, William MATH 150 0724 MBA 307 LEC F 9:00 AM 10:55 AM Manikandan, Thri MATH 150-HYBRID 4838 MBA 120 LEC F 11:10 AM Hermer, William MATH 150-HYBRID 4841 MBA 213 LEC TH 7:00 AM 8:55 AM Lackpour, Matin MATH 150 0760 MBA 217 LEC MW 6:05 PM 8:35 PM O'Leary, Alice MATH 161 0772 MBA 312 LEC	MATH 130	0626	MBA 307	LEC	MW	2:45 PM	4:10 PM	Georgevich, Milan
MATH 130-HYBRID 4833 MBA 317 LEC W 510 FM 610 FM Landman, Hain MATH 150 0681 MBA 213 LEC TTH 9:05 AM 11:10 AM Ross, Kristin MATH 150 0711 MBBM 130 LEC TTH 2:00 PM 4:05 PM Fogel, Charles MATH 150 0724 MBA 307 LEC TH 2:00 PM 4:05 PM Fogel, Charles MATH 150 0724 MBA 307 LEC MW 5:30 PM 7:35 PM Hemmer, William MATH 150-HYBRID 4838 MBA 120 LEC F 9:00 AM 10:55 AM Manikandan, Thri MATH 160-HYBRID 4839 MBA 120 LEC F 11:15 AM 11:0 PM Manikandan, Thri MATH 161 0772 MBA 105 LEC TH 7:00 AM 8:55 AM Lackpour, Alice MATH 165 0760 MBA 217 LEC MW 6:05 PM 8:35 PM O'Leary, Alice MATH 170 0802 MBA 207	MATH 130	0632	MBA 315	LEC	MW	4:25 PM	5:50 PM	Avakyan, Vage
MATH 150 O681 MBA 213 LEC TH 9:05 AM 11:10 AM Reads, Cirkana MATH 150 0711 MBB 130 LEC TTH 9:05 AM 11:10 AM Ross, Kristin MATH 150 0711 MBB 130 LEC TTH 2:00 PM 4:05 PM Fogel, Charles MATH 150 0724 MBA 307 LEC MW 5:30 PM 7:35 PM Hemmer, William MATH 150-HYBRID 4838 MBA 120 LEC F 9:00 AM 10:55 AM Manikandan, Thri MATH 160-HYBRID 4839 MBA 120 LEC F 11:15 AM 1:10 PM Manikandan, Thri MATH 161 0772 MBA 105 LEC MW 4:30 PM 5:55 PM O'Leary, Alice MATH 165 0760 MBA 217 LEC MW 6:05 PM 8:35 PM O'Leary, Alice MATH 170 0802 MBA 207 LEC WW 6:15 PM 9:25 PM Eleuteri, Robert MATH 180 0823 MBA 209	MATH 130	0638	MBA 211	LEC	TTH	7:15 PM	8:40 PM	Zambrano, Ruth
MATH 150 O711 MBB 130 LEC TTH 2100 PM 4100 FM Frode, Riskin MATH 150 0724 MBA 307 LEC TTH 2:00 PM 4:05 PM Fogel, Charles MATH 150 0724 MBA 307 LEC MW 5:30 PM 7:35 PM Hemmer, William MATH 150-HYBRID 4838 MBA 120 LEC F 9:00 AM 10:55 AM Manikandan, Thri MATH 150-HYBRID 4839 MBA 120 LEC F 11:15 AM 1:10 PM Manikandan, Thri MATH 161 0772 MBA 105 LEC TH 7:00 AM 8:55 AM Lackpour, Matin MATH 161 0772 MBA 105 LEC MW 6:05 PM 8:35 PM O'Leary, Alice MATH 170- 0802 MBA 217 LEC TTH 9:45 AM 11:10 AM Hockman, Anna MATH 170 0802 MBA 207 LEC TTH 7:15 PM 8:40 PM Heng, Ramy MATH 170 0806 MBA 317	MATH 130-HYBRID	4833	MBA 317	LEC	W	5:00 PM	6:20 PM	Watson, Christina
MATH 150 0724 MBA 307 LEC MW 5:30 PM 7:35 PM Hemmer, William MATH 150-HYBRID 4838 MBA 120 LEC F 9:00 AM 10:55 AM Manikandan, Thri MATH 150-HYBRID 4839 MBA 120 LEC F 9:00 AM 10:55 AM Manikandan, Thri MATH 150-HYBRID 4839 MBA 120 LEC F 11:15 AM 1:10 PM Manikandan, Thri MATH 150-HYBRID 4841 MBA 213 LEC TH 7:00 AM 8:55 AM Lackpour, Matin MATH 161 0772 MBA 105 LEC MW 6:05 PM 8:35 PM O'Leary, Alice MATH 170- 0802 MBA 312 LEC TTH 9:45 AM 11:10 AM Hockman, Anna MATH 170 0802 MBA 207 LEC W 6:15 PM 9:25 PM Eleuteri, Robert MATH 170 0806 MBA 317 LEC TTH 7:15 PM 8:40 PM Heng, Ramy MATH 180 0823 MBA	MATH 150	0681	MBA 213	LEC	ттн	9:05 AM	11:10 AM	Ross, Kristin
MATH 150-HYBRID 4838 MBA 120 LEC F 9:00 AM 10:55 AM Manikandan, Thri MATH 150-HYBRID 4839 MBA 120 LEC F 9:00 AM 10:55 AM Manikandan, Thri MATH 150-HYBRID 4839 MBA 120 LEC F 11:15 AM 1:10 PM Manikandan, Thri MATH 150-HYBRID 4841 MBA 213 LEC TH 7:00 AM 8:55 AM Lackpour, Matin MATH 161 0772 MBA 105 LEC MW 4:30 PM 5:55 PM O'Leary, Alice MATH 170 0700 MBA 217 LEC MW 6:05 PM 8:35 PM O'Leary, Alice MATH 170 0766 MBA 217 LEC TTH 9:45 AM 11:10 AM Hockman, Anna MATH 170 0802 MBA 207 LEC TTH 7:15 PM 8:40 PM Heng, Ramy MATH 180 0823 MBA 209 LEC MW 8:30 AM 11:00 AM Hamza, Hamza MATH 180 0820 MBA 312<	MATH 150	0711	MBBM 130	LEC	TTH	2:00 PM	4:05 PM	Fogel, Charles
MATH 150-HYBRID 4839 MBA 120 LEC F 11:15 AM 1:10 PM Manikandan, Thri MATH 150-HYBRID 4841 MBA 213 LEC TH 7:00 AM 8:55 AM Lackpour, Matin MATH 161 0772 MBA 105 LEC TH 7:00 AM 8:55 PM O'Leary, Alice MATH 161 0772 MBA 105 LEC MW 4:30 PM 5:55 PM O'Leary, Alice MATH 165 0760 MBA 217 LEC MW 6:05 PM 8:35 PM O'Leary, Alice MATH 170 - Gateways to Engr 0786 MBA 212 LEC TTH 9:45 AM 11:10 AM Hockman, Anna MATH 170 0802 MBA 207 LEC W 6:15 PM 9:25 PM Eleuteri, Robert MATH 180 0823 MBA 209 LEC MW 8:30 AM 11:00 AM Hamza, Hamza Gateways to Engr 0830 MBA 317 LEC TTH 5:00 PM 7:30 PM Taylor, Ralph MATH 190 0882	MATH 150	0724	MBA 307	LEC	MW	5:30 PM	7:35 PM	Hemmer, William
MATH 150-HYBRID 4841 MBA 213 LEC TH 7:00 AM 8:55 AM Lackpour, Matin MATH 161 0772 MBA 105 LEC MW 4:30 PM 5:55 PM O'Leary, Alice MATH 165 0760 MBA 217 LEC MW 6:05 PM 8:35 PM O'Leary, Alice MATH 170 - Gateways to Engr 0786 MBA 312 LEC TTH 9:45 AM 11:10 AM Hockman, Anna MATH 170 - Gateways to Engr 0802 MBA 207 LEC W 6:15 PM 9:25 PM Eleuteri, Robert MATH 180 0823 MBA 209 LEC TTH 7:15 PM 8:40 PM Heng, Ramy MATH 180 0823 MBA 209 LEC MW 8:30 AM 11:00 AM Hamza, Hamza MATH 180 - Gateways to Engr 0830 MBA 312 LEC MTWTH 11:30 AM 12:40 PM Taylor, Susan MATH 190 0882 MBA 111 LEC TTH 5:00 PM 7:30 PM Taylor, Ralph MATH 191	MATH 150-HYBRID	4838	MBA 120	LEC	F	9:00 AM	10:55 AM	Manikandan, Thri
MATH 161 0772 MBA 105 LEC MW 4:30 PM 5:57 PM O'Leary, Alice MATH 165 0760 MBA 217 LEC MW 6:05 PM 8:35 PM O'Leary, Alice MATH 170 - Gateways to Engr 0786 MBA 312 LEC TTH 9:45 AM 11:10 AM Hockman, Anna MATH 170 0802 MBA 207 LEC TTH 9:45 AM 11:10 AM Hockman, Anna MATH 170 0802 MBA 207 LEC TTH 9:45 AM 11:10 AM Hockman, Anna MATH 180 0823 MBA 207 LEC TTH 7:15 PM 8:40 PM Heng, Ramy MATH 180 0823 MBA 209 LEC MW 8:30 AM 11:00 AM Hamza, Hamza MATH 180 - Gateways to Engr 0830 MBA 312 LEC MTWTH 11:30 AM 12:40 PM Taylor, Susan MATH 190 0882 MBA 111 LEC TTH 5:00 PM 7:30 PM Taylor, Ralph MATH 191 0900 <td< td=""><td></td><td>4839</td><td>MBA 120</td><td>LEC</td><td>F</td><td>11:15 AM</td><td>1:10 PM</td><td>Manikandan, Thri</td></td<>		4839	MBA 120	LEC	F	11:15 AM	1:10 PM	Manikandan, Thri
MATH 161 0772 MBA 105 LEC MW 4:30 PM 5:55 PM O'Leary, Alice MATH 165 0760 MBA 217 LEC MW 6:05 PM 8:35 PM O'Leary, Alice MATH 170- Gateways to Engr 0786 MBA 312 LEC TTH 9:45 AM 11:10 AM Hockman, Anna MATH 170 0802 MBA 207 LEC W 6:15 PM 9:25 PM Eleuteri, Robert MATH 170 0806 MBA 317 LEC TTH 7:15 PM 8:40 PM Heng, Rarny MATH 180 0823 MBA 209 LEC MW 8:30 AM 11:00 AM Hamza, Hamza MATH 180- 0830 MBA 312 LEC MTWTH 11:30 AM 12:40 PM Taylor, Susan MATH 180- 0882 MBA 111 LEC TTH 5:00 PM 7:30 PM Taylor, Ralph MATH 191 0900 MBA 317 LEC TTH 8:30 AM 9:40 AM Seyedin, Aban MATH 191 0900 MBA 307	MATH 150-HYBRID	4841	MBA 213	LEC	TH	7:00 AM	8:55 AM	Lackpour, Matin
MATH 170 – Gateways to Engr 0786 MBA 312 LEC TTH 9:45 AM 11:10 AM Hockman, Anna MATH 170 0802 MBA 207 LEC W 6:15 PM 9:25 PM Eleuteri, Robert MATH 170 0806 MBA 207 LEC W 6:15 PM 9:25 PM Eleuteri, Robert MATH 180 0823 MBA 209 LEC MW 8:30 AM 11:00 AM Hamza, Hamza MATH 180 0823 MBA 209 LEC MW 8:30 AM 11:00 AM Hamza, Hamza MATH 180 0823 MBA 312 LEC MTWTH 11:30 AM 12:40 PM Taylor, Susan Gateways to Engr 0830 MBA 317 LEC TTH 5:00 PM 7:30 PM Taylor, Susan MATH 190 0882 MBA 111 LEC TTH 5:00 PM 7:30 PM Taylor, Ralph MATH 191 0900 MBA 307 LEC TTH 2:15 PM 4:45 PM Georgevich, Milan MATH 191 0920 MBA	MATH 161	0772	MBA 105	LEC	MW	4:30 PM	5:55 PM	O'Leary, Alice
MATH 170 – Gateways to Engr 0786 MBA 312 LEC TTH 9:45 AM 11:10 AM Hockman, Anna MATH 170 0802 MBA 207 LEC W 6:15 PM 9:25 PM Eleuteri, Robert MATH 170 0806 MBA 207 LEC W 6:15 PM 9:25 PM Eleuteri, Robert MATH 170 0806 MBA 317 LEC TTH 7:15 PM 8:40 PM Heng, Ramy MATH 180 0823 MBA 209 LEC MW 8:30 AM 11:00 AM Hamza, Hamza MATH 180 – Gateways to Engr 0830 MBA 312 LEC MTWTH 11:30 AM 12:40 PM Taylor, Susan MATH 190 0882 MBA 111 LEC TTH 5:00 PM 7:30 PM Taylor, Ralph MATH 191 0900 MBA 307 LEC TTH 2:15 PM 4:45 PM Georgevich, Milan MATH 191 0920 MBA 307 LEC TTH 5:00 PM 7:30 PM Horvath, Robert MATH 191 0920	MATH 165	0760	MBA 217	LEC	MW	6:05 PM	8:35 PM	O'Leary, Alice
MATH 170 0806 MBA 317 LEC TTH 7:15 PM 8:40 PM Heng, Ramy MATH 180 0823 MBA 209 LEC MW 8:30 AM 11:00 AM Hamza, Hamza MATH 180 0823 MBA 209 LEC MW 8:30 AM 11:00 AM Hamza, Hamza MATH 180 0830 MBA 312 LEC MTWTH 11:30 AM 12:40 PM Taylor, Susan MATH 190 0882 MBA 111 LEC TTH 5:00 PM 7:30 PM Taylor, Ralph MATH 191 0900 MBA 317 LEC MTWTH 8:30 AM 9:40 AM Seyedin, Aban MATH 191 0900 MBA 307 LEC TTH 2:15 PM 4:45 PM Georgevich, Milan MATH 191 0920 MBA 307 LEC TTH 5:00 PM 7:30 PM Horvath, Robert MATH 191 0920 MBA 307 LEC TTH 5:00 PM 9:00 PM Avakyan, Vage MATH 191 0920 MBA 307 LEC		0786	MBA 312	LEC	ттн	9:45 AM		
MATH 180 0823 MBA 209 LEC MW 8:30 AM 11:00 AM Hamza, Hamza MATH 180 Gateways to Engr 0830 MBA 312 LEC MTWTH 11:30 AM 12:40 PM Taylor, Susan MATH 190 0882 MBA 111 LEC TTH 5:00 PM 7:30 PM Taylor, Ralph MATH 191 0900 MBA 317 LEC MTWTH 8:30 AM 9:40 AM Seyedin, Aban MATH 191 0900 MBA 307 LEC TTH 8:30 AM 9:40 AM Seyedin, Aban MATH 191 0914 MBA 307 LEC TTH 2:15 PM 4:45 PM Georgevich, Milan MATH 191 0920 MBA 307 LEC TTH 5:00 PM 7:30 PM Horvath, Robert MATH 191 0920 MBA 311 LEC TTH 5:00 PM 7:30 PM Horvath, Robert MATH 191 0922 MBA 311 LEC TTH 5:00 PM 9:00 PM Avakyan, Vage MATH 210 0926 MBA 309	MATH 170	0802	MBA 207	LEC	W	6:15 PM	9:25 PM	Eleuteri, Robert
MATH 180 Gateways to Engr 0830 MBA 312 LEC MTWTH 11:30 AM 12:40 PM Taylor, Susan MATH 190 0882 MBA 111 LEC TTH 5:00 PM 7:30 PM Taylor, Ralph MATH 191 0900 MBA 317 LEC MTWTH 8:30 AM 9:40 AM Seyedin, Aban MATH 191 0900 MBA 307 LEC TTH 2:15 PM 4:45 PM Georgevich, Milan MATH 191 0920 MBA 307 LEC TTH 5:00 PM 7:30 PM Horvath, Robert MATH 191 0920 MBA 307 LEC TTH 2:15 PM 4:45 PM Georgevich, Milan MATH 191 0920 MBA 307 LEC TTH 5:00 PM 7:30 PM Horvath, Robert MATH 191 0922 MBA 311 LEC MW 6:30 PM 9:00 PM Avakyan, Vage MATH 210 0926 MBA 309 LEC MW 6:30 PM 9:00 PM Evensizer, Jill	MATH 170	0806	MBA 317	LEC	ттн	7:15 PM	8:40 PM	Heng, Ramy
Gateways to Engr 0830 MBA 312 LEC MTWTH 11:30 AM 12:40 PM Taylor, Susan MATH 190 0882 MBA 111 LEC TTH 5:00 PM 7:30 PM Taylor, Ralph MATH 191 0900 MBA 317 LEC MTWTH 8:30 AM 9:40 AM Seyedin, Aban MATH 191 0914 MBA 307 LEC TTH 2:15 PM 4:45 PM Georgevich, Milan MATH 191 0920 MBA 307 LEC TTH 5:00 PM 7:30 PM Horvath, Robert MATH 191 0920 MBA 307 LEC TTH 5:00 PM 7:30 PM Horvath, Robert MATH 191 0920 MBA 307 LEC TTH 5:00 PM 7:30 PM Horvath, Robert MATH 191 0922 MBA 311 LEC MW 6:30 PM 9:00 PM Avakyan, Vage MATH 210 0926 MBA 309 LEC MW 6:30 PM 9:00 PM Fry, Gregory MATH 270 0952 MBA 309		0823	MBA 209	LEC	MW	8:30 AM	11:00 AM	Hamza, Hamza
MATH 191 0900 MBA 317 LEC MTWTH 8:30 AM 9:40 AM Seyedin, Aban MATH 191 0914 MBA 307 LEC TTH 2:15 PM 4:45 PM Georgevich, Milan MATH 191 0920 MBA 307 LEC TTH 5:00 PM 7:30 PM Horvath, Robert MATH 191 0920 MBA 211 LEC MW 6:30 PM 9:00 PM Avakyan, Vage MATH 210 0926 MBA 311 LEC TTH 4:15 PM 6:20 PM Fry, Gregory MATH 270 0952 MBA 309 LEC MW 6:30 PM 9:00 PM Evensizer, Jill		0830	MBA 312	LEC	MTWTH	11:30 AM	12:40 PM	Taylor, Susan
MATH 191 0922 MBA 211 LEC MW 6:30 PM 9:00 PM Avakyan, Vage MATH 210 0926 MBA 311 LEC TTH 4:15 PM 6:20 PM Fry, Gregory MATH 270 0952 MBA 309 LEC MW 6:30 PM 9:00 PM Evensizer, Jill	MATH 190	0882	MBA 111	LEC	ΤΤΗ	5:00 PM	7:30 PM	Taylor, Ralph
MATH 191 0922 MBA 211 LEC MW 6:30 PM 9:00 PM Avakyan, Vage MATH 210 0926 MBA 311 LEC TTH 4:15 PM 6:20 PM Fry, Gregory MATH 270 0952 MBA 309 LEC MW 6:30 PM 9:00 PM Evensizer, Jill	MATH 191	0900	MBA 317	LEC	MTWTH	8:30 AM	9:40 AM	Seyedin, Aban
MATH 191 0922 MBA 211 LEC MW 6:30 PM 9:00 PM Avakyan, Vage MATH 210 0926 MBA 311 LEC TTH 4:15 PM 6:20 PM Fry, Gregory MATH 270 0952 MBA 309 LEC MW 6:30 PM 9:00 PM Evensizer, Jill	MATH 191	0914	MBA 307	LEC	ТТН	2:15 PM	4:45 PM	Seyedin, Aban Georgevich, Milan Horvath, Robert
MATH 191 0922 MBA 211 LEC MW 6:30 PM 9:00 PM Avakyan, Vage MATH 210 0926 MBA 311 LEC TTH 4:15 PM 6:20 PM Fry, Gregory MATH 270 0952 MBA 309 LEC MW 6:30 PM 9:00 PM Evensizer, Jill	MATH 191	0920	MBA 307	LEC	TTH	5:00 PM	7:30 PM	Horvath, Robert
MATH 270 0952 MBA 309 LEC MW 6:30 PM 9:00 PM Evensizer, Jill	MATH 191	0922	MBA 211	LEC	MW	6:30 PM	9:00 PM	
	MATH 210	0926	MBA 311	LEC	ТТΗ	4:15 PM	6:20 PM	Fry, Gregory
MATH 270 0954 MBA 217 LEC TTH 6:30 PM 9:00 PM Stein, James	MATH 270	0952	MBA 309	LEC	MW	6:30 PM	9:00 PM	Fry, Gregory Evensizer, Jill
	MATH 270	0954	MBA 217	LEC	ттн	6:30 PM	9:00 PM	Stein, James

Spring 2016 Professional Development Day Student Equity Data Review Questions

The purpose of having this discussion is to identify and prepare to assist students who are not passing their courses. This activity is intended for faculty to brainstorm in efforts to produce innovative methods of intervention and assistance. When answering the questions below, please keep these questions in mind: What works for you? What would you like to try? What have you seen work elsewhere?

Please refer to the data sets provided.

The chart for "ALL Mathematical Sciences Departments" shows the gap between success rate of all students, and the success rates of different ethnic groups.

The average % not passed appears above the box, to the right (it's 45%).

The data in the box compares passing rates of different ethnic groups (African-Americans are not passing at a rate of 59%). The "Gap" compares the ethnic group to the average. Since African-American students are not passing at a rate of 59% and the Division average is 45%, there is an approximate 13% gap between the numbers. With such a large gap, and we have thousands of students in this category, we need an intervention to help this population succeed.

Next, look at the Latino group. Latinos didn't pass at a rate of 49%, only 4% less than the average. But look at the number of Latino students who are failing: 4,500 students. Even though the "gap" is small, we have a group of over 4000 students who are failing. An intervention is needed here as well because of the large number of students.

- 1. Based on the institutional data, which students are most at risk of not succeeding in our classes?
- 2. Have you observed ways students within these at-risk populations experience difficulty succeeding? If so, can you describe specific behaviors you've observed? For example: preparation levels (e.g., writing skills, computational skills), class attendance, involvement in class activities, engagement with students or instructor, completion of assignments, help-seeking behaviors. Give some examples why you think certain students are failing our classes.
- 3. What strategies or interventions do or can your **department** utilize to increase the success of at-risk students? For example, by collaborating with relevant campus support services to streamline the process for referring students or developing a new workshop or speakers series.
- 4. What strategies or interventions do or can **you** utilize to increase the success of at-risk students? For example, by incorporating relevant readings, resources or assignments, inviting guest speakers, requiring students to attend grade conferences.

of % of # of D, F, % of courses Gap Course by Division enrollments enollment NP, W not passed (<-10% in red) 127,383 40,194 ALL DIVISIONS 32% 43% African-American 19,030 15% 8,209 -12% Amer, Ind. or Alask, Native 179 0% 34% -3% 61 10% Asian 20,213 16% 4,299 21% 50% 34% -2% Latino 63,658 21,639 Pacific Islander 696 1% 290 42% -10% Two or More 5,857 5% 1,766 30% 1% 29% Unknown or Decline 794 1% 228 3% White 3,702 10% 16,956 13% 22% **Behavioral & Social Sciences** 27,792 8,134 29% African-American 4,104 15% 1,660 40% -11% Amer. Ind. or Alask. Native 28 0% 9 32% -3% Asian 4,066 15% 695 17% 12% Latino 14,492 52% 4,591 32% -2% Pacific Islander 137 0% 62 45% -16% 5% 359 Two or More 1,253 29% 1% 1% 36 5% Unknown or Decline 146 25% White 3,566 13% 722 20% 9% **Business** 6,970 2,563 37% African-American 1,115 16% 585 52% -16% Amer. Ind. or Alask. Native 0% 3 50% -13% 6 Asian 1,348 19% 322 24% 13% Latino 2,928 42% 1,162 40% -3% Pacific Islander 37 1% 22 59% -23% 327 5% 126 -2% Two or More 39% 33 Unknown or Decline 77 1% 43% -6% 27% 9% White 1,132 16% 310 16,902 4,205 25% **Fine Arts** African-American 17% 1,045 37% 2,851 -12% Amer. Ind. or Alask. Native 28 0% 7 25% 0% 2,603 15% 418 16% 9% Asian 47% -1% Latino 7,915 2,078 26% Pacific Islander 89 1% 36 40% -16% 905 5% 197 22% 3% Two or More 93 1% 25 -2% Unknown or Decline 27% 399 White 2,418 14% 17% 8% **Health Sciences & Athletics** 14,415 3,258 23% 20% -10% 2,841 935 33% African-American Amer. Ind. or Alask. Native 38 0% 7 18% 4% 14% 242 11% Asian 2,024 12% Latino 6,692 46% 1,601 24% -1% Pacific Islander -8% 115 1% 35 30% Two or More 737 5% 164 22% 0% 157 1% 27 17% 5% Unknown or Decline

1,811

13%

247

14%

El Camino College Fall 2014 and Spring 2015

White

9%

El Camino College Fall 2014 and Spring 2015

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		4 and Spring		o	_
Course by Division	# of	% of	# of D, F,	% of courses	Gap
	enroliments	enoliment	NP, W	not passed	(<-10% in red)
Humanities	23,095	4.50/	7,930	34%	in the state of th
African-American	3,488	15%	1,660	48%	-13%
Amer. Ind. or Alask. Native	26	0%	8	31%	4%
Asian	3,745	16%	874	23%	11%
Latino	12,343	53%	4,407	36%	-1%
Pacific Islander	124	1%	52	42%	-8%
Two or More	970	4%	338	35%	-1%
Unknown or Decline	77	0%	37	48%	-14%
White	2,322	10%	554	24%	10%
Industry & Technology	9,496		2,193	23%	
African-American	1,206	13%	456	38%	-15%
Amer. Ind. or Alask. Native	14	0%	5	36%	-13%
Asian	1,142	12%	158	14%	9%
Latino	4,820	51%	1,188	25%	-2%
Pacific Islander	40	0%	10	25%	-2%
Two or More	412	4%	90	22%	1%
Unknown or Decline	81	1%	15	19%	5%
White	1,781	19%	271	15%	8%
Mathematical Sciences	17,346		7,888	45%	
African-American	2,210	13%	1,295	59%	-13%
Amer. Ind. or Alask. Native	23	0%	12	52%	-7%
Asian	2,954	17%	946	32%	13%
Latino	9,125	53%	4,500	49%	-4%
Pacific Islander	105	1%	49	47%	-1%
Two or More	715	4%	310	43%	2%
Unknown or Decline	75	0%	28	37%	8%
White	2,139	12%	748	35%	11%
Natural Sciences	10,850		3,929	36%	
African-American	1,132	10%	553	49%	-13%
Amer. Ind. or Alask. Native	16	0%	10	63%	-26%
Asian	2,259	21%	631	28%	8%
Latino	5,124	47%	2,080	41%	-4%
Pacific Islander	48	0%	24	50%	-14%
Two or More	508	5%	176	35%	2%
Unknown or Decline	79	1%	27	34%	2%
White	1,684	16%	428	25%	11%

Course by Department	# of enrollments	% of enollment	# of D, F, NP, W	% of courses not passed	Gap (<-10% in red)
ALL Mathematical Sciences Departments	17,346		7,888	45%	
African-American	2,210	13%	1,295	59%	-13%
Amer. Ind. or Alask. Native	23	0%	12	52%	-7%
Asian	2,954	17%	946	32%	13%
Latino	9,125	53%	4,500	49%	-4%
Pacific Islander	105	1%	49	47%	-1%
Two or More	715	4%	310	43%	2%
Unknown or Decline	75	0%	28	37%	8%
White	2,139	12%	748	35%	11%
CSCI	691		226	33%	
CSCI-1 (Prob Solvng/Prog Dsgn C++)	383		162	42%	
African-American	27	7%	17	63%	-21%
Asian	122	32%	43	35%	7%
Latino	147	38%	72	49%	-7%
Pacific Islander	4	1%	2	50%	-8%
Two or More	23	6%	10	43%	-1%
Unknown or Decline	3	1%	1	33%	9%
White	57	15%	17	30%	12%
CSCI-16 (Assem Lan Prgrmg IBM PC)	16		5	31%	
African-American	3	19%	2	67%	-35%
Asian	1	6%	-	0%	31%
Latino	3	19%	-	0%	31%
Two or More	2	13%	2	100%	-69%
White	7	44%	1	14%	17%
CSCI-2 (Intro to Data Structures)	121		33	27%	
African-American	2	2%	2	100%	-73%
Asian	46	38%	14	30%	-3%
Latino	37	31%	9	24%	3%
Two or More	4	3%	-	0%	27%
White	32	26%	8	0%	27%
CSCI-3 (Computer Programming in Java)	113		22	19%	
African-American	7	6%	••	0%	19%
Asian	41	36%	10	24%	-5%
Latino	36	32%	9	25%	-6%
Two or More	8	7%	1	13%	7%
White	21	19%	2	10%	10%
CSCI-30 (Advanced Programming in C++)	40		2	5%)
African-American	5	13%	-	0%	5%
Asian	9	23%	-	0%	5%
Latino	9	23%	1	11%	-6%
Two or More	3	8%	-	0%	5%
White	14	35%	1	. 7%	-2%

Fall 20	014 and Spring	g 2015			
Course by Department	# of enrollments	% of enollment	# of D, F, NP, W	% of courses not passed	Gap (<-10% in red)
CSCI-40 (Intro UNIX/LINUX Operatg Sys)	18		2	11%	
African-American	2	11%	1	50%	-39%
Asian	4	22%	-	0%	11%
Latino	8	44%	1	13%	-1%
Unknown or Decline	1	6%	-	0%	11%
White	3	17%	•	0%	11%
ENGR	111		22	20%	
ENGR-1 (Intro to Engineering)	71		14	20%	
African-American	4	6%	1	25%	-5%
Asian	15	21%	-	0%	20%
Latino	40	56%	8	20%	0%
Pacific Islander	1	1%	***	0%	20%
White	11	15%	5	45%	-26%
ENGR-9 (Engr Mechanics - Statics)	40		8	20%	
African-American	1	3%		0%	20%
Asian	8	20%	3	38%	-18%
Latino	18	45%	2	11%	9%
Pacific Islander	2	5%	1	50%	-30%
Two or More	1	3%	-	0%	20%
Unknown or Decline	1	3%	-	0%	20%
White	9	23%	2	22%	-2%
MATH	16,544		7,640	46%	
MATH-110 (Structures/Concepts in Math)	136		39	29%	
African-American	15	11%	7	47%	-18%
Amer. Ind. or Alask. Native	. 1	1%	-	0%	29%
Asian	15	11%	3	20%	9%
Latino	73	54%	21	29%	0%
Pacific Islander	1	1%	-	0%	29%
Two or More	. 3	2%	-	0%	29%
Unknown or Decline	3	2%	1	33%	-5%
White	25	18%	. 2	28%	1%
MATH-115 (Prob/Stats-Elem School Tchrs)	49		11	22%	
African-American	5	10%	2	40%	-18%
Asian	6	12%	1	17%	6%
Latino	28	57%	5	18%	5%
Two or More	2	4%	1	50%	-28%
White	8	16%	2	25%	-3%
MATH-116 (Geom/Msurement-Elem Schl Tchrs)	20		4	20%	· · · · · ·
African-American	2	10%	1	50%	-30%
Asian	2	10%	1	50%	-30%
Latino	11	55%	2	18%	2%
White	5	25%	-	0%	20%

Course by Department	# of	% of	# of D, F, NP, W	% of courses	Gap (<-10%
	enrollments	enoliment	INP, W	not passed	in red)
MATH-12 (Basic Arithmetic Skills) Basic Skills	1,099		570	52%	
African-American	269	24%	174	65%	-13%
Asian	46	4%	12	26%	26%
Latino	681	62%	342	50%	2%
Pacific Islander	6	1%	4	67%	-15%
Two or More	26	2%	14	54%	-2%
Unknown or Decline	2	0%	1	50%	2%
White	69	6%	23	33%	19%
MATH-120 (Nature of Mathematics)	336		124	37%	
African-American	47	14%	27	57%	-21%
Asian	42	13%	11	26%	11%
Latino	173	51%	67	39%	-2%
Pacific Islander	1	0%	-	0%	37%
Two or More	11	3%	4	36%	1%
Unknown or Decline	1	0%	1	100%	-63%
White	61	18%	14	23%	14%
MATH-130 (College Algebra)	800		326	41%	
African-American	85	11%	48	56%	-16%
Amer. Ind. or Alask. Native	1	0%	1	100%	-59%
Asian	178	22%	45	25%	15%
Latino	358	45%	167	47%	-6%
Pacific Islander	4	1%	-	0%	41%
Two or More	46	6%	23	50%	-9%
Unknown or Decline	9	1%	3	33%	7%
White	119	15%	39	33%	8%
MATH-140 (Finite Math Bus/Soc Sciences)	44		20	45%	
African-American	3	7%	2		-21%
Asian	15	34%	5	33%	12%
Latino	10	23%	8	80%	-35%
Pacific Islander	2	5%	1	50%	-5%
Two or More	3	7%	1	33%	12%
White	11	25%	3	27%	18%
MATH-150 (Elemntry Statistcs W/Probablty)	2,083		9 20	44%	
African-American	241	12%	148	61%	
Amer. Ind. or Alask. Native	2	0%	1	. 50%	
Asian	450	22%	5 119	26%	
Latino	1,003	48%	517	52%	
Pacific Islander	10	0%	; 4	40%	49
Two or More	93	4%	5 3E	5 3 9%	5%
Unknown or Decline	8	0%	5 1	13%	
White	276	13%	6 9 4	34%	10%

Fail 2014 and Spring 2015						
Course by Department	# of enroliments	% of enoliment	# of D, F, NP, W	% of courses not passed	Gap (<-10% in red)	
MATH-160 (Calc I for Biol, Mgmt/Soc Sci)	405		205	51%		
African-American	28	7%	22	79%	-28%	
Amer. Ind. or Alask. Native	2	0%	1	50%	1%	
Asian	138	34%	58	42%	9%	
Latino	153	38%	82	54%	-3%	
Pacific Islander	2	0%	2	100%	-49%	
Two or More	21	5%	11	52%	-2%	
Unknown or Decline	3	1%	1	33%	17%	
White	58	14%	28	48%	2%	
MATH-161 (Calc II for Biol,Mgmt/Soc Sci)	73		22	30%		
African-American	2	3%	1	50%	-20%	
Amer. Ind. or Alask. Native	1	1%	-	0%	30%	
Asian	33	45%	7	21%	9%	
Latino	21	29%	. 8	38%	-8%	
Two or More	5	7%	1	20%	10%	
Unknown or Decline	2	3%	1	50%	-20%	
White	9	12%	4	44%	-14%	
MATH-170 (Trigonometry)	820		420	51%		
African-American	66	8%	36	55%	-3%	
Amer. Ind. or Alask. Native	1	0%	1	100%	-49%	
Asian	159	19%	67	42%	9%	
Latino	454	55%	267	59%	-8%	
Pacific Islander	5	1%	-	0%	51%	
Two or More	27	3%	10	37%	14%	
Unknown or Decline	3	0%	1	33%	18%	
White	105	13%	38	36%	15%	
MATH-180 (Pre-Calculus)	716		321	45%		
African-American	51	7%	29	57%	-12%	
Asian	193	27%	58	30%	15%	
Latino	330	46%	181	55%	-10%	
Pacific Islander	5	1%	2	40%	5%	
Two or More	33	5%	12	36%	8%	
Unknown or Decline	2	0%	- 1	50%	-5%	
White	102	14%	38	37%	8%	
MATH-190 (Sgi Var Calc/Aniyt Geometry I)	686		320	47%		
African-American	36	5%	16	44%	2%	
Asian	245	36%	9 9	40%	6%	
Latino	264	38%	145	55%	-8%	
Pacific Islander	1	0%	1	100%	-53%	
Two or More	34	5%	14	41%	5%	
Unknown or Decline	3	0%	2	67%	-20%	
White	103	15%	43	42%	59	

Fall	2014 and Spring	2015			-
Course by Department	# of enrollments	% of enollment	# of D, F, NP, W	% of courses not passed	Gap (<-10% in red)
MATH-191 (Sgl Var Calc/Anlyt Geometry II)	532		248	47%	
African-American	30	6%	17	57%	-10%
Asian	198	37%	80	40%	6%
Latino	197	37%	101	51%	-5%
Pacific Islander	4	1%	3	75%	-28%
Two or More	21	4%	9	43%	4%
Unknown or Decline	2	0%	1	50%	-3%
White	80	15%	37	46%	0%
MATH-210 (Intro-Discrete Structures)	74		24	32%	
African-American	5	7%	-	0%	32%
Asian	33	45%	13	39%	-7%
Latino	21	28%	8	38%	-6%
Two or More	2	3%	1	50%	-18%
White	13	18%	2	15%	17%
MATH-220 (Multi-Variable Calculus)	203		54	27%	
African-American	9	4%	4	44%	-18%
Asian	68	33%	17	25%	2%
Latino	73	36%	24	33%	-6%
Pacific Islander	1	0%	-	-0%	27%
Two or More	14	7%	2	14%	12%
Unknown or Decline	1	0%	1	100%	-73%
White	37	18%	6	16%	10%
MATH-23 (Pre-Algebra) Basic Skills	1,045		397	38%	
African-American	187	18%	91	49%	-11%
Amer. Ind. or Alask. Native	1	0%	-	0%	38%
Asian	55	5%	17	31%	7%
Latino	693	66%	252	36%	2%
Pacific Islander	3	0%	2	67%	-29%
Two or More	31	3%	12	39%	-1%
Unknown or Decline	2	0%	-	0%	38%
White	73	7%	23	32%	6%
MATH-270 (Diffrntl Equatns Linear Algbra)	185		33	18%	
African-American	4	2%	1	25%	-7%
Asian	64	35%	7	11%	7%
Latino	65	35%	15	23%	-5%
Pacific Islander	2	1%	-	0%	18%
Two or More	15	8%	1	7%	11%
Unknown or Decline	2	1%	-	0%	18%
White	33	18%	9	27%	-9%

Fall 2014 and Spring 2015 Gap						
Course by Department	# of enrollments	% of enollment	# of D, F, NP, W	% of courses not passed	(<-10% in red)	
MATH-37 (Basic Accelerated Mathematics)	794		386	49%		
African-American	149	19%	7 9	53%	-4%	
Amer. Ind. or Alask. Native	4	1%	3	75%	-26%	
Asian	47	6%	15	32%	17%	
Latino	481	61%	242	50%	-2%	
Pacific Islander	3	0%	2	67%	-18%	
Two or More	29	4%	16	55%	-7%	
Unknown or Decline	2	0%	1	50%	-1%	
White	79	10%	28	35%	13%	
MATH-40 (Elementary Algebra)	1,475		771	52%		
African-American	268	18%	172	64%	-12%	
Amer. Ind. or Alask. Native	2	0%	2	100%	-48%	
Asian	114	8%	33	29%	23%	
Latino	886	60%	473	53%	-1%	
Pacific Islander	9	1%	4	44%	8%	
Two or More	51	3%	27	53%	-1%	
Unknown or Decline	6	0%	4	67%	-14%	
White	139	9%	56	40%	12%	
MATH-60 (Elementary Geometry)	254		104	41%		
African-American	29	11%	20	69%	-28%	
Amer. Ind. or Alask. Native	1	0%		0%	41%	
Asian	34	13%	12	35%	6%	
Latino	141	56%	58	41%	0%	
Pacific Islander	2	1%	1	50%	-9%	
Two or More	11	4%	5	45%	-5%	
Unknown or Decline	1	0%	-	0%	41%	
White	35	14%	8	23%	18%	
MATH-67 (General Education Algebra)	374		179	48%		
African-American	64	17%	45	70%	-22%	
Amer. Ind. or Alask. Native	1	0%	1	100%	-52%	
Asian	18	5%	3	17%	31%	
Latino	230	61%	104	45%	3%	
Pacific Islander	4	1%	3	75%	-27%	
Two or More	8	2%	4	50%	-2%	
Unknown or Decline	4	1%	3	75%	-27%	
White	45	12%	16	36%	a se su contra recorda.	

Course by Department	# of enrollments	% of enollment	# of D, F, NP, W	% of courses not passed	Gap (<-10% in red)
MATH-73 (Intermediate Algebra Gen Ed)	2,009		921	46%	
African-American	321	16%	177	55%	-9%
Amer. Ind. or Alask. Native	2	0%	1	50%	-4%
Asian	204	10%	63	31%	15%
Latino	1,151	57%	551	48%	-2%
Pacific Islander	12	1%	6	50%	-4%
Two or More	1.00	5%	47	47%	-1%
Unknown or Decline	8	0%	3	38%	8%
White	211	11%	73	35%	11%
MATH-80 (Intermed Alg - Sci/Engr/Math)	2,332		1,221	52%	
African-American	243	10%	153	63%	-11%
Amer. Ind. or Alask. Native	4	0%	1	25%	27%
Asian	351	15%	130	37%	15%
Latino	1,330	57%	758	57%	-5%
Pacific Islander	21	1%	11	52%	0%
Two or More	88	4%	46	52%	0%
Unknown or Decline	6	0%	1	17%	36%
White	289	12%	121	42%	10%