

	ACADEMIC YR: <b>2015-2016</b>	DIVISION/AREA: <b>Math/Tech</b>	DIVISION CHAIR/DIRECTOR: <b>Farah Saddigh</b>
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## **LOS ANGELES HARBOR COLLEGE**

### **College Mission:**

Los Angeles Harbor College fosters learning through comprehensive programs that meet the educational needs of the community as measured by student success, personal and institutional accountability, and integrity.

### **Math and Technology Division**

#### **Unit Plan**

2015 – 2016

Farah Saddigh  
Division Chair

Contact: (310) 233 - 4500

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## Unit Plan “Part A”

### 1. Assessment of Program Review:

The Math and Technology Division provides students with the necessary skills to earn an associate degree and/or certificate of achievement; transfer to, and graduate from, a four-year university, and successfully enter the workforce.

Data review led the math department to re-evaluate its placement program and change from the Compass assessment tool to the Mathematics Diagnostic Testing Project, as a more realistic diagnostic measure of Harbor’s student population . The math department also assessed its overall curriculum, which prompted the addition of Math115 (Elementary Algebra) and Math 125 (Intermediate Algebra)—two courses that shorten the developmental math pathway. The Math Department also created a preparatory statistics course, Math 137 (Pre- Statistics), which non-math major (non-STEM) students can take in place of the three-course pathway to college level Statistics. The math faculty continues to offer a pre-assessment and pre-semester boot camp experience for students, to refresh math skills prior to assessment and to enhance success in math courses in which they are enrolled. Learning Skills 10 has been replaced by Math 105, in alignment with the rest of the District. The math department now offers Math 110 as a shorter, alternative pathway to the Math 105 /112 combination of classes.

After reviewing the retention and completion rates of students in the basic skills classes, and finding them unsatisfactory, we will be offering intervention programs such as workshops and supplemental instruction to increase the student success.

FASTTRACK was discontinued because its emphasis on online instruction proved to be less effective than personal teacher-student instruction.

Harbor College is in the fourth year of a five-year National Science Foundation Title III HIS-STEM grant, which is intended to increase students’ ability and motivation to succeed in STEM fields. The grant has enabled us to provide additional STEM classes as well as supplemental instruction in classes leading to STEM majors.

The Technology Department is working with transfer institutions and advisory committees in order to evaluate and update its curriculum. The department continues to offer online courses and to schedule courses on a rotating basis, allowing for greater enrollment and transfer completion. Our computer science instructor recently went on fifty-percent pre-retirement, necessitating a new hire to meet the demand for those courses.

The Technology Department is currently working with two Cal State University campuses to implement transfer agreements which would provide our students with priority registration status for transferring into their engineering programs. This work includes a full review and modification of curriculum to align with the university course content. The department is also reviewing course content to improve manufacturing components as per requests from our industry advisory committee. Equipment requests will reflect the needs of the vast design and manufacturing industry in southern California.

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The Technology Departments will continue their partnership with Banning High School by offering afternoon and outreach classes.

**2. Activities to address program needs:**

The Mathematics Department will continue to address state and nationwide basic skills initiatives by requesting two additional mathematics instructors. Institutionalization of tutorial services in the Math Lab will be addressed by requesting funding via Academic Cluster priorities. Also, we will implement intervention programs to supplement remedial courses in order to improve basic skills education and enable students to obtain their AA and/or transfer to a 4-year college, and help fulfill the Student Success Initiative.

The Math and Technology Division needs to incorporate computer technology in its classes to help students conceptualize abstract concepts, and should have its own computer lab to assist students with study and individual projects.

The Technology Department is working to increase the number of certificates of achievement to prepare students to enter high-demand industrial jobs, and also working with Cal –State Dominguez’s computer technology department to create a Home Land Security pathway.

Our division will be offering a STEM courses in summer 2015 to recruit STEM majors.

The division needs to utilize data in its long-term planning of curriculum, course scheduling, and instructional methods.

**3. How are your program improvements associated with SLOs:**

Student Learning Outcomes continue to be developed and assessed for all courses. The student performance in this program has remained fairly constant over the past several years. ISLO #2 data collection and analysis has been taking place. The procedure is long-term and still in progress. Most of our math courses have excessive SLOs which should be reduced. The success rate on SLOs is higher than completion rates. To close the gap, the SLOs should be more challenging and comprehensive, and common finals should be given to more accurately assess student mastery. We intend to use the ISLO #2 data to improve our program. Suggestions for program improvements associated with SLOs:

- Tutorial Support: LAC data collection of grades and retention in individual classes for which students receive tutoring indicate that over 70% received grades of A, B, or C. For those who dropped or received substandard grades, further assessment is needed. The 2012, 2013, and 2014. LAC student satisfaction surveys indicated that students are satisfied with these services.
- Supplemental Instruction: We are providing SI in all remedial classes to improve student retention and completion.
- Implementing intervention programs: We will offer supplemental basic skills workshops.

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#### **4. Staffing Requirements:**

The Mathematics Department needs two additional full-time faculties. Currently, 60% of our classes are taught by adjuncts. Our computer science faculty recently went on fifty percent pre-retirement, necessitating a new hire to meet the demand for these courses.

#### **5. Technological Requirements:**

The Math and Technology Division needs to incorporate computer technology in its classes to help students conceptualize abstract concepts, and should have its own computer lab to assist students with study and individual projects. The Technology Department requests turning center equipment to prepare students for our vast design/manufacturing industry in southern California.

#### **6. Facilities Requirements:**

The Mathematics Department is growing and more rooms are required.

#### **7. Implementation Plan:**

- Basic skills Workshops will be offered each semester on a trail bases.
- SIs will be provided each semester as funding allows.
- Funding for tutorial support of the Math Lab will be sought from the college's general budget.
- Funding for a computer lab, software, and turning center will be sought from the college's general budget.
- We will be seeking two math positions from FHPC in Fall 2015.
- We will be seeking one computer science position from FHPC in Fall 2015.



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## Unit Plan "Part B"

		Approx. Yearly Cost (2014-15)
Divisions Core Personnel/Permanent Staff	13	
Resulting # of sections to be assigned permanent staff per semester*	65	1,300,000
Reassigned time per semester (in section equivalents)	0	(11x5@\$10,000)
Remaining sections to be assigned permanent staff per semester*	55	per sem.)
*as part of regular full load		

Discipline: Computer Science		Approx. Yearly Cost (2014-15)
Disciplines Core Personnel/Permanent Staff	1	
Resulting # of sections to be assigned permanent staff per semester*	4	80000
Reassigned time per semester (in section equivalents)	0	(0x5@\$10,000)
Remaining sections to be assigned permanent staff per semester*	0	per sem.)

Discipline	Course #	Course	Units	Fall 14 sections offered:	Fall sections assigned to permanent staff:	Remaining fall sections for listing in "C" & "D":	Spring 2015 sections offered	Spring sections assigned to permanent staff:	Remaining spring sections for listing in "C" & "D":	Approx. Yearly Cost (2014-15)		
CO SCI	53	PROGRAMMING LABORATORY	3	1	0	1	6	1	0	6	\$0	
CO SCI	91	BEGINNING BASIC PROGRAMMING	3	0	0	0	0	0	0	0	\$0	
CO SCI	340	PROGRAMMING IN C++	3	1	0	1	6	1	0	1	6	\$0
CO SCI	344	PROGRAMMING IN JAVA	3	0	0	0	0	0	0	0	\$0	

Discipline: Computer Technology		Approx. Yearly Cost (2014-15)
Disciplines Core Personnel/Permanent Staff	1	
Resulting # of sections to be assigned permanent staff per semester*	15	\$300,000
Reassigned time per semester (in section equivalents)	0	(3x5@\$10,000)
Remaining sections to be assigned permanent staff per semester*	15	per sem.)

Discipline	Course #	Course	Units	Fall 14 sections offered:	Fall sections assigned to permanent staff:	Remaining fall sections for listing in "C" & "D":	Spring 2015 sections offered	Spring sections assigned to permanent staff:	Remaining spring sections for listing in "C" & "D":	Approx. Yearly Cost (2014-15)
CO TECH	35	INTRODUCTION TO LINUX +	5	0	0	0	0	0	0	
CO TECH	50	BASIC ELECTRONICS	6	1	1	0	1	1	0	
CO TECH	52	FUNDAMENTAL COMPUTER CIRCUITS AND LABORATORY	6	1	0	1	6	1	1	6
CO TECH	53	FUNDAMENTAL COMPUTER CIRCUITS LABORATORY I	3	0	0	0	0	0	0	\$0
CO TECH	54	FUNDAMENTAL COMPUTER CIRCUITS II	6	1	0	1	6	1	1	6
CO TECH	55	FUNDAMENTAL COMPUTER CIRCUITS LABORATORY II	3	0	0	0	0	0	0	\$0
CO TECH	56	COMPUTER LOGIC AND ARITHMETIC	6	1	0	1	6	1	1	6
CO TECH	58	INTRODUCTION TO COMPUTER SYSTEMS	4	0	0	0	0	0	0	\$0
CO TECH	60	COMPUTER MATHEMATICS I	5	1	0	1	6	1	1	6
CO TECH	61	COMPUTER MATHEMATICS II	5	1	0	1	6	1	1	6
CO TECH	64	COMPUTER ELECTRONICS AND LABORATORY	6	0	0	0	0	0	0	\$0
CO TECH	74	A+ CERTIFICATION PREPARATION/ INTRO TO COMPUTER REPAIR I	6	0	0	0	0	0	0	
CO TECH	76	A+ CERTIFICATION PREPARATION/ INTRO TO COMPUTER REPAIR II	6	1	0	1	6	1	1	6
CO TECH	78	INTRODUCTION TO NETWORK +	6	0	0	0	0	0	0	\$0
CO TECH	80	INTRODUCTION TO SERVER +	6	1	0	1	6	1	1	6
CO TECH	81	INTRODUCTION TO FIBER OPTICS	3	1	0	1	6	1	1	6
CO TECH	185	DIRECTED STUDY - COMPUTER TECHNOLOGY	1	1	0	1	6	1	1	6
CO TECH	285	DIRECTED STUDY - COMPUTER TECHNOLOGY	2	1	0	1	6	1	1	6
CO TECH	385	DIRECTED STUDY - COMPUTER TECHNOLOGY	3	1	0	1	6	1	1	6
CO TECH	061A	COMPUTER MATHEMATICS II	2.5	0	0	0	0	0	0	\$0
CO TECH	061B	COMPUTER MATHEMATICS II	2.5	1	0	1	6	1	1	6

Discipline: Drafting		Approx. Yearly Cost (2014-15)
Disciplines Core Personnel/Permanent Staff	2	
Resulting # of sections to be assigned permanent staff per semester*	35	\$700,000



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Reassigned time per semester (in section equivalents)	0	(7x5@\$10,000)
Remaining sections to be assigned permanent staff per semester*	35	per sem.)

Discipline	Course #	Course	Units	Fall 14 sections offered:	Fall sections assigned to permanent staff:	Remaining fall sections for listing in "C" & "D":	Spring 2015 sections offered	Spring sections assigned to permanent staff:	Remaining spring sections for listing in "C" & "D":	Approx. Yearly Cost (2014-15)
DRAFT	1	GENERAL DRAFTING	6	7	7	0	7	7	0	\$140,000
DRAFT	4	APPLIED DESCRIPTIVE GEOMETRY	6	1	0	1	1	0	1	\$0
DRAFT	6	TECHNOLOGY AND SOCIETY	3	1	1	0	1	1	0	\$20,000
DRAFT	9	MECHANICAL DRAFTING	6	1	0	1	1	0	1	6
DRAFT	16	BLUEPRINT READING I	3	4	4	0	4	4	0	\$80,000
DRAFT	17	BLUEPRINT READING II	3	4	4	0	4	4	0	
DRAFT	50	PRODUCTION DRAFTING	6	3	3	0	3	3	0	
DRAFT	51	TOOLING DRAFTING	6	2	2	0	2	2	0	
DRAFT	52	ELECTRO-MECHANICAL DRAFTING	6	1	0	1	1	0	1	6
DRAFT	54	SIMPLIFIED STRESS ANALYSIS	6	2	2	0	2	2	0	
DRAFT	55	COMPUTER-AIDED DESIGN AND DRAFTING	5	4	4	0	4	4	0	
DRAFT	81	PROJECTS LABORATORY	3	2	2	0	2	2	0	
DRAFT	82	CAD DRAFTING LABORATORY	6	2	2	0	2	2	0	

<b>Discipline: EGT</b>		<b>Approx. Yearly Cost (2014-15)</b>
Disciplines Core Personnel/Permanent Staff	0	
Resulting # of sections to be assigned permanent staff per semester*	0	\$0
Reassigned time per semester (in section equivalents)	0	(0x5@\$10,000)
Remaining sections to be assigned permanent staff per semester*	0	per sem.)

Discipline	Course #	Course	Units	Fall 14 sections offered:	Fall sections assigned to permanent staff:	Remaining fall sections for listing in "C" & "D":	Spring 2015 sections offered	Spring sections assigned to permanent staff:	Remaining spring sections for listing in "C" & "D":	Approx. Yearly Cost (2014-15)
EGT	28	TECHNOLOGY AND SOCIETY	3	1	1	0	1	1	0	

<b>Discipline: Electronics</b>		<b>Approx. Yearly Cost (2014-15)</b>
Disciplines Core Personnel/Permanent Staff	1	
Resulting # of sections to be assigned permanent staff per semester*	10	\$200,000
Reassigned time per semester (in section equivalents)	0	(2x5@\$10,000)
Remaining sections to be assigned permanent staff per semester*	10	per sem.)

Discipline	Course #	Course	Units	Fall 14 sections offered:	Fall sections assigned to permanent staff:	Remaining fall sections for listing in "C" & "D":	Spring 2015 sections offered	Spring sections assigned to permanent staff:	Remaining spring sections for listing in "C" & "D":	Approx. Yearly Cost (2014-15)
ELECTRN	4	FUNDAMENTALS OF ELECTRONICS I	6	0	0	0	0	0	0	\$0
ELECTRN	5	FUNDAMENTALS OF ELECTRONICS I LABORATORY	3	1	0	1	1	0	1	\$0
ELECTRN	6	FUNDAMENTALS OF ELECTRONICS II	6	0	0	0	0	0	0	\$0
ELECTRN	7	FUNDAMENTALS OF ELECTRONICS II LABORATORY	3	1	0	1	1	0	1	6
ELECTRN	16	SELECTED ELEMENTS OF ELECTRONICS MATHEMATICS	5	0	0	0	0	0	0	\$0
ELECTRN	20	ELECTRONIC CIRCUITS I	6	1	1	0	1	1	0	
ELECTRN	22	ELECTRONIC CIRCUITS II	6	1	0	1	1	0	1	6
ELECTRN	30	PULSE CIRCUITS	6	0	0	0	0	0	0	
ELECTRN	40	ELECTRONIC INSTRUMENTS I	3	1	0	1	1	0	1	6
ELECTRN	41	MEASUREMENT AND TESTING LABORATORY I	3	0	0	0	0	0	0	
ELECTRN	43	MEASUREMENT AND TESTING LABORATORY II	3	1	0	1	1	0	1	6
ELECTRN	50	SOLID STATE CIRCUITS	6	0	0	0	0	0	0	
ELECTRN	54	COMPUTER LOGIC	6	1	0	1	1	0	1	6
ELECTRN	56	COMPUTER CIRCUITS	3	0	0	0	0	0	0	
ELECTRN	57	COMPUTER CIRCUITS LABORATORY	3	1	0	1	1	0	1	6
ELECTRN	60	MICROWAVE FUNDAMENTALS	3	0	0	0	0	0	0	
ELECTRN	81	PROJECTS LABORATORY	3	1	0	1	1	0	1	6

<b>Discipline: Engineering</b>		<b>Approx. Yearly Cost (2014-15)</b>
Disciplines Core Personnel/Permanent Staff	3	
Resulting # of sections to be assigned permanent staff per semester*	15	\$300,000
Reassigned time per semester (in section equivalents)	0	(3x5@\$10,000)
Remaining sections to be assigned permanent staff per semester*	15	per sem.)



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Discipline	Course #	Course	Units	Fall 14 sections offered:	Fall sections assigned to permanent staff:	Remaining fall sections for listing in "C" & "D":	Spring 2015 sections offered	Spring sections assigned to permanent staff:	Remaining spring sections for listing in "C" & "D":	Approx. Yearly Cost (2014-15)
ENG GEN	111	INTRODUCTION TO ENGINEERING DRAFTING	6	3	3	0	3	3	0	\$60,000
ENG GEN	112	ENGINEERING DESCRIPTIVE GEOMETRY	6	1	0	1	6	1	1	6
ENG GEN	241	STRENGTH OF MATERIALS	5	1	0	1	6	1	1	6
ENG GEN	243	STATICS AND STRENGTH OF MATERIALS (CALCULUS BASED)	6	2	2	0	2	2	0	
ENG GEN	912	ELEMENTARY ENGINEERING DRAFTING	6	2	2	0	2	2	0	
ENG MEC	205	ENGINEERING DESCRIPTIVE GEOMETRY	6	1	0	1	6	1	1	\$0
ENG TEK	48	TECHNICAL MATHEMATICS I	3	1	0	1	6	1	1	6
ENG TEK	49	TECHNICAL MATHEMATICS II	5	1	0	1	6	1	1	\$0
ENG TEK	50	TECHNICAL MATHEMATICS III	5	0	0	0	0	0	0	
ENG TEK	51	TECHNICAL MATHEMATICS IV	5	0	0	0	0	0	0	
ENG TEK	81	FABRICATION TECHNIQUES	3	1	0	1	6	1	1	6

Discipline: Mathematics	Approx. Yearly Cost (2014-15)
Disciplines Core Personnel/Permanent Staff	10
Resulting # of sections to be assigned permanent staff per semester*	75 1,500,000
Reassigned time per semester (in section equivalents)	0 (11x5@\$10,000
Remaining sections to be assigned permanent staff per semester*	55 per sem.)

Discipline	Course #	Course	Units	Fall 14 sections offered:	Fall sections assigned to permanent staff:	Remaining fall sections for listing in "C" & "D":	Spring 2015 sections offered	Spring sections assigned to permanent staff:	Remaining spring sections for listing in "C" & "D":	Approx. Yearly Cost (2014-15)
Math	105	MATH FUNDAMENTALS	3	4	0	4	6	4	4	\$0
MATH	100	MATHEMATICS WORKSHOP	3	1	0	1	6	1	1	\$0
MATH	105	ARITHMETIC	3		0	0		0	0	\$0
MATH	110	INTRODUCTION TO ALGEBRAIC CONCEPTS	5	6	4	2	6	42	2	
MATH	112	PRE-ALGEBRA	3	7	1	6	6	7	1	\$20,000
MATH	115	ELEMENTARY ALGEBRA	3	7	5	2	7	5	2	
MATH	121	ESSENTIALS OF PLANE GEOMETRY	3	1	1	0	1	1	0	
MATH	123A	ELEMENTARY AND INTERMEDIATE ALGEBRA I	4	10	3	7	6	10	3	6
MATH	123B	ELEMENTARY AND INTERMEDIATE ALGEBRA II	4	3	1	2	3	1	2	
MATH	123C	ELEMENTARY AND INTERMEDIATE ALGEBRA III	4	8	3	5	6	8	3	6
MATH	125	INTERMEDIATE ALGEBRA	5	6	4	2	6	4	2	
MATH	137	PRE-STATISTICS ALGEBRA	5	2	2	0	2	2	0	
MATH	215	PRINCIPLES OF MATHEMATICS I	3	1	0	1	6	1	1	\$0
MATH	216	PRINCIPLES OF MATHEMATICS II	3	1	0	1	6	1	1	\$0
MATH	227	STATISTICS	4	10	7	3	10	7	3	
MATH	234	COLLEGE LEVEL ALGEBRA	4	2	1	1	6	2	1	\$20,000
MATH	235	FINITE MATHEMATICS	5	0	0	0	1	0	1	
MATH	236	CALCULUS FOR BUSINESS AND SOCIAL SCIENCE	5	1	1	0	1	1	0	
MATH	240	TRIGONOMETRY	3	2	1	1	6	2	1	6
MATH	260	PRE-CALCULUS	5	3	3	0	3	3	0	
MATH	265	CALCULUS WITH ANALYTIC GEOMETRY I	5	2	1	1	2	1	1	
MATH	266	CALCULUS WITH ANALYTIC GEOMETRY II	5	2	1	1	6	1	1	6
MATH	267	CALCULUS WITH ANALYTIC GEOMETRY III	5	1	1	0	1	1	0	
MATH	270	LINEAR ALGEBRA	3	1	1	0	1	1	0	
MATH	275	ORDINARY DIFFERENTIAL EQUATIONS	3	0	0	0	1	1	0	

New facilities funded from Program 100 essential for the delivery of sections taught by permanent staff	\$0
None listed	
New equipment funded from Program 100 essential for the delivery of sections taught by permanent staff	\$0
None listed	
Supplies funded from Program 100 essential for the delivery of sections taught by permanent staff	\$0
None listed	

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## Unit Plan “Part C”

Offerings denoted as “C” above: that is, offerings mandated by law or other binding requirements per semester but not assigned to division permanent staff because no regular instructor is technically eligible for the assignment.

Discipline	Course #	Course	Units	Fall 14 sections offered:	Spring 2015 sections offered	Approx. Yearly Cost (2014-15)
		None listed as 'C' above				

<b>New facilities funded from Program 100 essential for the delivery of sections taught by permanent staff</b>	\$0
None listed	
<b>New equipment funded from Program 100 essential for the delivery of sections taught by permanent staff</b>	\$0
None listed	
<b>Supplies funded from Program 100 essential for the delivery of sections taught by permanent staff</b>	\$0
None listed	



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## Unit Plan “Part D”

Offerings denoted as 'D' in Part B along with essential non-instructional assignments and new equipment or supplies not provided for above, prioritized by the division as provided for here offerings denoted as 'D' in Part B.

Number of Items	Approx. Yearly Cost (2015-16)
43	\$737,000

Activity/Item Listings include all “Other Essential Activities” from each unit plan, along with currently unfunded ‘Core’ activities/items	Ap pr ox		Su pp or tin g	at tention	al	Mast	orted by Data w/ Reco	TO TA
Math105	\$20,000	1						
Math110	\$20,000	2	Program 100, Program Demand & Student Success					
Math112	\$30,000	3	Program 100, Program Demand & Student Success					
Math115	\$20,000	4	Program 100, Program Demand & Student Success					
Maath121	\$10,000	5	Program 100, Program Demand & Student Success					
Math123A	\$20,000	6	Program 100, Program Demand & Student Success					
Math123B	\$20,000	7	Program 100, Program Demand & Student Success					
Math123C	\$20,000	8	Program 100, Program Demand & Student Success					
Math125	\$20,000	9	Program 100, Program Demand & Student Success					
Math137	\$20,000	10	Program 100, Program Demand & Student Success					
Math215	\$10,000	11	Program 100, Program Demand & Student Success					
Math216	\$10,000	12	Program 100, Program Demand & Student Success					
Math227	\$30,000	13	Program 100, Program Demand & Student Success					
Math234	\$10,000	14	Program 100, Program Demand & Student Success					
Math235	\$10,000	15	Program 100, Program Demand & Student Success					
Math236	\$10,000	16	Program 100, Program Demand & Student Success					
Math240	\$10,000	17	Program 100, Program Demand & Student Success					
Math260	\$10,000	18	Program 100, Program Demand & Student Success					
Math265	\$10,000	19	Program 100, Program Demand & Student Success					
Math266	\$10,000	20	Program 100, Program Demand & Student Success					



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Drafting1	\$10,000	21	Program 100, Program Demand & Student Success				
Drafting16	\$10,000	22	Program 100, Program Demand & Student Success				
Drafting17	\$10,000	23	Program 100, Program Demand & Student Success				
Drafting50	\$10,000	24	Program 100, Program Demand & Student Success				
Drafting51	\$10,000	25	Program 100, Program Demand & Student Success				
Drafting55	\$10,000	26	Program 100, Program Demand & Student Success				
Drafting56	\$10,000	27	Program 100, Program Demand & Student Success				
Drafting82	\$10,000	28	Program 100, Program Demand & Student Success				
ComTech50	\$10,000	29	Program 100, Program Demand & Student Success				
ComTech52	\$10,000	30	Program 100, Program Demand & Student Success				
ComTech56	\$10,000	31	Program 100, Program Demand & Student Success				
ComTech60	\$10,000	32	Program 100, Program Demand & Student Success				
ComTech61	\$10,000	33	Program 100, Program Demand & Student Success				
ComTech74	\$10,000	34	Program 100, Program Demand & Student Success				
ComTech76	\$10,000	35	Program 100, Program Demand & Student Success				
ComTech78	\$10,000	36	Program 100, Program Demand & Student Success				
ComTech185	\$10,000	37	Program 100, Program Demand & Student Success				
ComTech285	\$10,000	38	Program 100, Program Demand & Student Success				
Math Tutors & SI's	\$10,000	39	Program 100, Program Demand & Student Success				
Supplies	\$40,000	40	Program 100, Program Demand & Student Success				
Equipment for Computer Lab	\$120,000	41	Program 100, Program Demand & Student Success				
Turning Center	\$37,000	42	Program 100, Program Demand & Student Success				
STEM Boot Camp	\$40,000	43	STEM Grant To recruit STEM Majors				
Totals	\$737,000						