Name:			PURE MATH COURSEWORK					
SID #:			MATH Ba	chelor	of Science (I	Fall 2017 catalog to current	nt)	
BREADTH REQUIREMENTS (180 units minimum to graduate, 216 max)			Entire major (PDA must completed			MATH PURE MATH Upper-Division Coursew		
Common Breadth Courses			Course Of	<u>ferings</u>		Course Offeri	<u>ngs</u>	
		Course Name	Units	Completed	36 units of upper-div to	o includ	e at	
Course Name	Units	Completed	MATH009A	4		least 24 units from the	followi	ng:
ENGL001A	4		MATH009B	4		Course Name	Units	Grade
ENGL001B	4		MATH009C	4		MATH131	4	
ENGL001C	4		MATH031	5		MATH132	4	
HUMANITIES (12 units minimum	/		<u>CS010</u>	4		MATH145A 4		
One (1) course from: World History 10, 1	5, or 20		MATH010A	4		MATH145B	4	
			MATH010B	4		MATH151A	4	
One (1) course in: fine arts, literature, philosophy, o	<mark>r religio</mark>	us studies	MATH046	4		MATH151B	4	
			CS011 is reco	mmend	ed	MATH151C	4	
One (1) additional humanities cours	se		Year of Science			MATH171	4	
			BIOL005, CHEM001,	or PHY	S040 Series	MATH172	4	
SOCIAL SCIENCES (12 units minim	um)					At least 3 courses from a	bove m	ust be:
One (1) course in: economics, political s	cience					MATH145A		
						MATH145B		
One (1) course in: anthropology, psychology	, sociolo	gy	Please refer to prerequ	isite rec	quirements	MATH151A		
			for all MATH			MATH151B		
One (1) additional social sciences cou	irse					MATH151C		
			Please note: MATH1	44 is a p	orerequsite	16 additional upp	er-div	
ETHNIC STUDIES (4 units minimu	m)	-	requirement for M	-	-		4	
May count towards addt'l humanities or addt'l social scie		t not both	MATH150A (also requ				4	
			MATH010B with C	or bett	er). Plan		4	
BIOLOGICAL SCIENCES (4 units min	imum)		accordir	ngly.			4	
			Refer to your universit	y catalo	og year and			
MATHEMATICS (4 units minimur	n)	·	degree audit for specific	-				
			all major requ		-			
PHYSICAL SCIENCE (4 units minim	ium)	·				emic Ady.		
				UNIVE	RSITY OF CALIF	ORNIA Deur	ii ii	
Two additional 4-unit courses from life sciences or	physica	1 science		7 I V	ERSI		ρά Ο	
					LIJI		5	
						(U 10)		

Name:			GENERAL APPLIED MATH COURSEWORK MATH Bachelor of Science (Fall 2017 catalog to current)					
SID #: BREADTH REQUIREMENTS (180 units minimum to graduate, 216 max)			MATH Core Requirement Lower-Div					
Common Breadth Courses		Course Of	ferings		Course Offerin	ngs		
English (12 units) - Grade of "C" or better is	require	ed	Course Name	Units	Completed	The following must be ta	ken fro	m the
Course Name	Units	Completed	MATH009A	4		MATH General Core C		
ENGL001A	4		MATH009B	4		Course Name	Units	Grade
ENGL001B	4		MATH009C	4		MATH131	4	
ENGL001C	4		MATH031	5		MATH135A&B or 149A&B	8	
HUMANITIES (12 units minimum	ı)		<u>CS010</u>	4		MATH146A	4	
One (1) course from: World History 10, 1	5, or 20		MATH010A	4		MATH146B	4	
			MATH010B	4		MATH146C	4	
One (1) course in: fine arts, literature, philosophy, o	r religio	us studies	MATH046	4		General MATH Option	1 Area 1	nust
			CS011 is reco	mmend	ed	take the follow	ing:	
One (1) additional humanities cours	se		Year of Se	cience		MATH150A or MATH151A	4	
			BIOL005, CHEM001,		S040 Series	MATH168	4	
SOCIAL SCIENCES (12 units minim	um)	•				16 units from the fo	llowing	•
One (1) course in: economics, political s	,					MATH120	4	
, , , _ _, _ , _ _, _ , _ _, _ , _ , _ , _ _, _ , _ _, _ _, _ _, _ , _ _, _ _, _ , _ _, _ _, _ _, _ , _ _, _ , _						MATH121	4	
One (1) course in: anthropology, psychology	sociol	ogv	Please refer to prerequ	isite rec	nuirements	MATH126	4	
	,	8)	for all MATH			MATH141	4	
One (1) additional social sciences cou	rse					MATH149A	4	
			Please note: MATH1	44 is a r	prerequisite	MATH149B	4	
ETHNIC STUDIES (4 units minimu	m)		requirement for M	-	-	MATH151B	4	
May count towards addt'l humanities or addt'l social scie		t not both	MATH150A (also requ			MATH165A	4	
			MATH010B with C-			MATH165B	4	
BIOLOGICAL SCIENCES (4 units min	imum)		accordir			Please review course offer	=	COURSE
			Refer to your universit	0,	o vear and	availability and approp	0	
MATHEMATICS (4 units minimur	n)	<u> </u>	degree audit for specific	5	0.	planning.		w100
			all major requ			plaining.		
PHYSICAL SCIENCE (4 units minim				mentell				
Two additional 4-unit courses from life sciences or		l science	UC		RSITY OF CALIF	DE demic Adv.	. Ng ()	

Name:			MATH APPLIED BIOL COURSEWORK					
SID #:			MATH Ba	chelor	of Science (I	Fall 2017 catalog to curren	it)	
BREADTH REQUIREMENTS (180 units minimum to graduate, 216 max)			MATH Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA			MATH BIOL Option Concentration Upper-Division Coursework		
Common Breadth Courses		Course Of	<u>ferings</u>		Course Offerin	<u>1gs</u>		
English (12 units) - Grade of "C" or better is	s require	d	Course Name	Units	Completed	The following must be ta	ken from the	e
Course Name	Units	Completed	MATH009A	4		MATH BIOL Core Co	ncentration	
ENGL001A	4		MATH009B	4		Course Name	Units Gra	.de
ENGL001B	4		MATH009C	4		MATH131	4	
ENGL001C	4		MATH031	5		MATH135A&B or 149A&B	8	
HUMANITIES (12 units minimum	<i>,</i>		<u>CS010</u>	4		MATH146A	4	
One (1) course from: World History 10, 1	5, or 20		MATH010A	4		MATH146B	4	
			MATH010B	4		MATH146C	4	
One (1) course in: fine arts, literature, philosophy, o	r religio	us studies	MATH046	4		BIOL Option Area		
			CS011 is reco	mmend	led	take the followi	ng:	
One (1) additional humanities course		Year of Science			MATH149A	4		
					2 courses from the following:			
SOCIAL SCIENCES (12 units minim	um)		BIOL005A/05LA	5		MATH120	4	
One (1) course in: economics, political s	cience		BIOL005B	4		MATH121	4	
			BIOL005C	4		MATH135A	4	
One (1) course in: anthropology, psychology	, sociolc	gy	Please refer to prerequ	isite rec	quirements	MATH135B	4	
			for all MATH	I course	es.	MATH149B	4	
One (1) additional social sciences cou	ırse					BIOL Upper-Division ,	must take:	
			Please note: MATH1	44 is a p	orerequsite	BIOL102	4	
ETHNIC STUDIES (4 units minimu			requirement for M			BIOL105	4	
May count towards addt'l humanities or addt'l social scie	ences, bu	t not both	MATH150A (also requ			BIOL108	4	
			MATH010B with C- or			4 additional units of upper-	division BIC	OL
BIOLOGICAL SCIENCES (4 units min	imum)		upper-div BIOL preqs.	Plan a	ccordingly.		4	
			Refer to your universit	ty catalo	og year and	Please review course offer	ngs for cour	rse
MATHEMATICS (4 units minimum	n)		degree audit for specific	c course	listings and	availability, prerequisites, a	nd appropri	iate
			all major requ	uiremen	ts.	course plannir	ıg.	
PHYSICAL SCIENCE (4 units minin	num)					demic Adu.		
				UNIVE	RSITY OF CALIF	ORNIA STELLER		
Two additional 4-unit courses from life sciences or	physica	l science	e UCRIVERSITY OF CALIFORNIA					
					LIVII	I Ialie		

Name:			MATH APPLIED CHEM COURSEWORK					
SID #:			МАТН Ва	chelor	of Science (H	Fall 2017 catalog to curren	.t)	
BREADTH REQUIREMENTS (180 units minimum to graduate, 216 max)			MATH Core Require Entire major GPA a with at least a	must co	mpleted	MATH CHEM Option Concentration Upper-Division Coursework		
Common Breadth Courses	Common Breadth Courses		Course Of	<u>ferings</u>		Course Offerin	<u>igs</u>	
English (12 units) - Grade of "C" or better is	s require	d	Course Name	Units	Completed	The following must be ta	ken fro	m the
Course Name	Units	Completed	MATH009A	4		MATH CHEM Core Co	ncentra	ation
ENGL001A	4		MATH009B	4		Course Name	Units	Grade
ENGL001B	4		MATH009C	4		MATH131	4	
ENGL001C	4		MATH031	5		MATH135A&B or 149A&B	8	
HUMANITIES (12 units minimum	i)		<u>CS010</u>	4		MATH146A	4	
One (1) course from: World History 10, 1	5, or 20		MATH010A	4		MATH146B	4	
			MATH010B	4		MATH146C	4	
One (1) course in: fine arts, literature, philosophy, o	r religio	us studies	MATH046	4		CHEM Option Are	a must	
			CS011 is reco	mmend	ed	take 3 from the foll	owing:	
One (1) additional humanities course		Science Sequences for applied CHEM			MATH120	4		
					MATH135A	4		
SOCIAL SCIENCES (12 units minim	um)		CHEM001A/01LA	5		MATH135B	4	
One (1) course in: economics, political s	cience		CHEM001B/01LB	5		MATH149A	4	
			CHEM001C/01LC	5		MATH149B	4	
One (1) course in: anthropology, psychology	, sociolo	gy	PHYS040A	5		MATH165A	4	
			PHYS040B	5		MATH165B	4	
One (1) additional social sciences cou	irse		PHYS040C	5		CHEM Upper-Division	, must	take:
			Please note: MATH14	44 is a p	orerequsite	CHEM110A	4	
ETHNIC STUDIES (4 units minimu	.m)		requirement for M			CHEM110B	4	
May count towards addt'l humanities or addt'l social scie		t not both	MATH150A (also requ			CHEM111	4	
			MATH010B with C- or			CHEM113	4	
BIOLOGICAL SCIENCES (4 units min	imum)		upper-div CHEM preqs	. Plan	accordingly.	Additional 4 units of uppe	er-div C	HEM
			Refer to your universit	y catalo	og year and		4	
MATHEMATICS (4 units minimur	n)	- 	degree audit for specific	•	0.	Please review course offeri	ngs for	course
			all major requ		-	availability, prerequisites, a	U	
PHYSICAL SCIENCE (4 units minim	num)	·	Be aware potential tim			course plannin		
			CHEM110 and M			demic Adu		
Two additional 4-unit courses from life sciences or	physica	1 science		RS		Ale Tation		

MATH Core Requirement Lower Div	Name:			MATH APPLIED ECON COURSEWORK MATH Bachelor of Science (Fall 2017 catalog to current)					
English (12 units) - Grade of "C" or better is required Course Name Units Completed MATH ECON Core Concentration ENGL001A 4 MATH009A 4 MATH ECON Core Concentration ENGL001B 4 MATH009C 4 MATH131 4 ENGL001C 4 MATH009C 4 MATH135A&B or 149A&B 8 ENGL001C 4 MATH010A 4 MATH146A 4 One (1) course from: World History 10, 15, or 20 MATH010B 4 MATH146B 4 One (1) course in: fine arts, literature, philosophy, or religious studies MATH010B 4 ECON Option Area must take the following: One (1) course in: conomics, political science Vear of Science MATH1420 4 SOCIAL SCIENCES (12 units minimum) MATH149B 4 ECON 4 ECON 4 One (1) additional social sciences course Please refer to prerequisite requirements for all MATH courses. ECON 4 ECON 4 May count towards addt humanities or addt social sciences, but not both MATH145A and darporpriate course planning. Please note: MATH1445A and darporpriate course planning. In lieu of ECON102A, at 2 ECON 4 ECON	BREADTH REQUIREMENTS			MATH Core Requirement Lower-Div Entire major GPA must completed			MATH ECON Option Concentration		
Course Name Units Completed MATH009A 4 MATH ECON Core Concentration ENGL001A 4 MATH009B 4 Course Name Units Grame ENGL001B 4 MATH009C 4 MATH1131 4 ENGL001C 4 MATH0109C 4 MATH1135A&B or 149A&B 8 HUMANTITES (12 units minimum) CS010 4 MATH146A 4 One (1) course from: World History 10, 15, or 20 MATH010A 4 MATH146B 4 One (1) course in: fine arts, literature, philosophy, or religious studies MATH046 4 ECON Option Area must take the following: One (1) additional humanities course Year of Science MATH140A 4 4 SOCIAL SCIENCES (12 units minimum) EISOL005, CHEM001, or PHYS040 Series MATH149A 4 4 One (1) additional social science Imath anth anth anth anth anth anth anth a	Common Breadth Courses			Course Of	ferings		Course Offeri	ngs	
Course Name Units Completed MATH009A 4 MATH ECON Core Concentration ENGL001A 4 MATH009B 4 Course Name Units Grame ENGL001B 4 MATH009C 4 MATH1131 4 ENGL001C 4 MATH009C 4 MATH1135A&B or 149A&B 8 HUMANITIES (12 units minimum) CS010 4 MATH146A 4 One (1) course from: World History 10, 15, or 20 MATH010A 4 MATH146B 4 One (1) course in: fine arts, literature, philosophy, or religious studies MATH046 4 ECON Option Area must take the following: One (1) additional humanities course Year of Science MATH140A 4 4 SOCIAL SCIENCES (12 units minimum) Immun MATH149A 4 4 One (1) additional social science Immun MATH149A 4 4 One (1) course in: anthropology, psychology, sociology Please refer to prerequisite requirements for all MATH courses. ECON 4 4 One (1) additional social sciences course Immun Immun ECON 4 4 One (1)	English (12 units) - Grade of "C" or better is	s require	d	Course Name	Units	Completed	The following must be ta	ken fro	m the
ENGL001B 4 MATH009C 4 MATH131 4 ENGL001C 4 MATH031 5 MATH135A&B or 149A&B 8 HUMANITIES (12 units minimum) CS010 4 MATH146A 4 One (1) course from: World History 10, 15, or 20 MATH010A 4 MATH146B 4 One (1) course in: fine arts, literature, philosophy, or religious studies MATH046 4 ECON Option Area must take the following: One (1) additional humanities course Year of Science MATH120 4 ECON Option Area must take the following: One (1) additional humanities course Year of Science MATH149A 4 4 One (1) course in: economics, political science MATH149A 4 4 One (1) course in: anthropology, psychology, sociology Please refer to prerequisite requirements for all MATH courses. ECON 4 One (1) additional social sciences, but not both MATH1010B HATH145A and MATH103A 4 ECON 4 Mary count towards add*l humanities or add*l social sciences, but not both MATH145A and MATH145A and MATH104B 4 ECON 4 BIOLOGICAL SCIENCES (4 units minimum) Refer to your university catalog year			-	MATH009A	4	-			
ENGL001C 4 MATH031 5 MATH135A&B or 149A&B 8 HUMANITIES (12 units minimum) CS010 4 MATH146A 4 One (1) course from: World History 10, 15, or 20 MATH010A 4 MATH146B 4 One (1) course in: fine arts, literature, philosophy, or religious studies MATH046 4 ECON Option Area must take the following: One (1) additional humanities course CS011 is recommended MATH120 4 SOCIAL SCIENCES (12 units minimum) EOON (1) course in: economics, political science MATH149A 4 One (1) additional social sciences course MATH149A 4 ECON 4 Upper-Div (at least 16 units for all MATH courses. ECON 4 One (1) additional social sciences course Please refer to prerequisite requirements for all MATH courses. ECON 4 ECON 4 One (1) additional social sciences, but not both MATH150A (also requires MATH145A and MATH100B with C- or better). Plan accordingly. Please review course offerings for othe ECON 102A, 102B, 103A, art 103B choices, either ECON102A, 102B, 103A, art 103B choices, either ECON102A, 102B, 103A, art 103B choices, either ECON102A, 02B, 103A, art 103B choices, either ECON102A, 02B, 103A, art 103B choices, either ECON102A, 02B, 103A, art 103B choices, either ECON102A may be taken BIOLOGICAL SCIENCES (4 units min	ENGL001A	4		MATH009B	4		Course Name	Units	Grade
HUMANITIES (12 units minimum) CS010 4 MATH146A 4 One (1) course from: World History 10, 15, or 20 MATH010A 4 MATH146B 4 One (1) course from: World History 10, 15, or 20 MATH010B 4 MATH146B 4 One (1) course in: fine arts, literature, philosophy, or religious studies MATH046 4 ECON Option Area must take the following: One (1) additional humanities course CS011 is recommended MATH120 4 SOCIAL SCIENCES (12 units minimum) MATH149A 4 One (1) course in: conomics, political science MATH149B 4 One (1) additional social sciences course Please refer to prerequisite requirements for all MATH courses. ECON 4 One (1) additional social sciences, but not both MATH100B MATH145A and MATH100B Please review course offerings for othe ECON course and appropriate course planning. May count towards addt1 humanities or addt1 social sciences, but not both MATH150A (also requires MATH09C & A ECON 4 Mathon BioLOGICAL SCIENCES (4 units minimum) Refer to your university catalog year and degree audit for specific course listings and all major requirements. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON	ENGL001B	4		MATH009C	4		MATH131	4	
One (1) course from: World History 10, 15, or 20 MATH010A 4 MATH146B 4 One (1) course in: fine arts, literature, philosophy, or religious studies MATH010B 4 MATH146C 4 One (1) course in: fine arts, literature, philosophy, or religious studies MATH046 4 ECON Option Area must take the following: One (1) additional humanities course Year of Science MATH120 4 SOCIAL SCIENCES (12 units minimum) MATH149A 4 One (1) course in: economics, political science MATH149B 4 One (1) course in: anthropology, psychology, sociology Please refer to prerequisite requirements for all MATH courses. ECON 4 One (1) additional social sciences course Please note: MATH144 is a prerequisite requirements for all MATH courses. ECON 4 One (1) additional social sciences, but not both Matth150A (also requires MATH009C & MATH145A and RATH145A and RATH145A and RATH145A and RATH145A and RATH145A and RATH145A and RATH150A (also requires MATH009C & MATH0405C & MATH010B with C- or better). Plan accordingly. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102A or ECON102A in 2B, 103A, ar 103B choices, either ECON102A or ECON102A may be taken	ENGL001C	4		MATH031	5		MATH135A&B or 149A&B	8	
MATH010B 4 MATH146C 4 One (1) course in: fine arts, literature, philosophy, or religious studies MATH046 4 ECON Option Area must take the following: One (1) additional humanities course Year of Science MATH120 4 One (1) additional humanities course Year of Science MATH120 4 SOCIAL SCIENCES (12 units minimum) MATH149A 4 One (1) course in: economics, political science MATH149B 4 One (1) course in: anthropology, psychology, sociology Please refer to prerequisite requirements for all MATH courses. ECON 4 One (1) additional social sciences course Please note: MATH144 is a prerequisite requirements for all MATH courses. ECON 4 ECON 4 ECON 4 ECON 4 May count towards addt1 humanities or addt1 social sciences, but not both MATH100B with C- or better). Plan accordingly. MATH009C & MATH000C & MATH00C & MATH00C & MATH000C & MATH000C & MATH000C & MATH000C &	HUMANITIES (12 units minimum	1)		<u>CS010</u>	4		MATH146A	4	
One (1) course in: fine arts, literature, philosophy, or religious studies MATH046 4 ECON Option Area must take the following: One (1) additional humanities course Year of Science MATH120 4 SOCIAL SCIENCES (12 units minimum) BIOL005, CHEM001, or PHYS040 Series MATH149A 4 One (1) course in: economics, political science MATH149B 4 One (1) course in: anthropology, psychology, sociology Please refer to prerequisite requirements for all MATH courses. ECON 4 One (1) additional social sciences course Please note: MATH144 is a prerequisite requirements for all MATH courses. ECON 4 One (1) additional social sciences, but not both MATH150A (also requires MATH09C & MATH145A and MATH150A (also requires MATH00PC & MATH150A (also requires the tecon) Plan accordingly. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON102A, may be taken BIOLOGICAL SCIENCES (4 units minimum) Refer to your university catalog year and all major requirements. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON104A may be taken	One (1) course from: World History 10, 1	5, or 20			4		MATH146B	4	
CS011 is recommended take the following: One (1) additional humanities course Year of Science MATH120 4 SOCIAL SCIENCES (12 units minimum) MATH149A 4 One (1) course in: economics, political science MATH149B 4 One (1) course in: anthropology, psychology, sociology Please refer to prerequisite requirements for all MATH courses. ECON 4 One (1) additional social sciences course Please note: MATH145A and ECON 4 May count towards addt1 humanities or addt1 social sciences, but not both MATH100B with C- or better). Plan Please review course offerings and appropriate course planning. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON104A may be taken PHYSICAL SCIENCE (4 units minimum) Refer to your university catalog year and all major requirements. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON104A may be taken				MATH010B	4		MATH146C	4	
One (1) additional humanities course Year of Science MATH120 4 SOCIAL SCIENCES (12 units minimum) BIOL005, CHEM001, or PHYS040 Series MATH121 4 One (1) course in: economics, political science MATH149A 4 One (1) course in: anthropology, psychology, sociology Please refer to prerequisite requirements for all MATH courses. ECON 4 Upper-Div (at least 16 units One (1) additional social sciences course Please note: MATH144 is a prerequisite requirement for MATH145A and MATH150A (also requires MATH009C & MATH150A (also requires MATH009C & MATH1010B with C- or better). Plan accordingly. Hease refer to your university catalog year and degree audit for specific course listings and all major requirements. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON104A may be taken	One (1) course in: fine arts, literature, philosophy, o	r religio	us studies	MATH046	4		ECON Option Are	ea must	
BIOL005, CHEM001, or PHYS040 Series MATH121 4 SOCIAL SCIENCES (12 units minimum) MATH149A 4 One (1) course in: economics, political science MATH149B 4 One (1) course in: anthropology, psychology, sociology Please refer to prerequisite requirements for all MATH courses. ECON 4 Upper-Div (at least 16 units ECON 4 Upper-Div (at least 16 units) One (1) additional social sciences course Please refer to prerequisite requirements for all MATH courses. ECON 4 ECON 4 ECON 4 May count towards addt'l humanities or addt'l social sciences, but not both MATH150A (also requires MATH009C & MATH100B with C- or better). Plan accordingly. Please refer to your university catalog year and degree audit for specific course listings and all major requirements. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON104A may be taken				CS011 is reco	take the following:				
BIOL005, CHEM001, or PHYS040 Series MATH121 4 SOCIAL SCIENCES (12 units minimum) MATH149A 4 One (1) course in: economics, political science MATH149B 4 One (1) course in: anthropology, psychology, sociology Please refer to prerequisite requirements for all MATH courses. ECON 4 Upper-Div (at least 16 units ECON 4 Upper-Div (at least 16 units) One (1) additional social sciences course Please refer to prerequisite requirements for all MATH courses. ECON 4 ECON 4 ECON 4 May count towards addt'l humanities or addt'l social sciences, but not both MATH150A (also requires MATH009C & MATH1010B with C- or better). Plan accordingly. Please refer to your university catalog year and degree audit for specific course listings and all major requirements. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON104A may be taken	One (1) additional humanities cours	se		Year of S	cience		MATH120	4	
SOCIAL SCIENCES (12 units minimum) MATH149A 4 One (1) course in: economics, political science MATH149B 4 One (1) course in: anthropology, psychology, sociology Please refer to prerequisite requirements for all MATH courses. ECON 4 Upper-Div (at least 16 units One (1) additional social sciences course Please nefer to prerequisite requirements for all MATH courses. ECON 4 ECON 4 ECON 4 Done (1) additional social sciences course Please note: MATH144 is a prerequisite requirement for MATH145A and MATH150A (also requires MATH009C & MATH010B with C- or better). Plan accordingly. Please refer to your university catalog year and degree audit for specific course listings and all major requirements. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON104A may be taken			1	BIOL005. CHEM001.	or PHY	S040 Series			
One (1) course in: economics, political science MATH149B 4 One (1) course in: anthropology, psychology, sociology Please refer to prerequisite requirements for all MATH courses. ECON 4 Upper-Div (at least 16 units One (1) additional social sciences course Please refer to prerequisite requirements for all MATH courses. ECON 4 One (1) additional social sciences course Please note: MATH144 is a prerequisite requirement for MATH145A and MATH150A (also requires MATH009C & MATH100PC & MATH100B with C- or better). Plan accordingly. Please review course offerings for othe ECON 102A, 102B, 103A, ar 103B choices, either ECON102 or ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON104A may be taken PHYSICAL SCIENCE (4 units minimum) Refer to your university catalog year and all major requirements.	SOCIAL SCIENCES (12 units minim	um)			-				
Image: Construct of the construction of the constructio		,							
One (1) course in: anthropology, psychology, sociology Please refer to prerequisite requirements for all MATH courses. ECON 4 One (1) additional social sciences course Image: Constant					1			east 16	units)
Image: Control of the control of th	One (1) course in: anthropology, psychology	sociol)gv	Please refer to prerequ	uisite rea	nuirements			
One (1) additional social sciences course ECON 4 One (1) additional social sciences course Please note: MATH144 is a prerequsite requirement for MATH145A and MATH150A (also requires MATH009C & MATH009C & MATH010B with C- or better). Plan accordingly. ECON 4 BIOLOGICAL SCIENCES (4 units minimum) Refer to your university catalog year and degree audit for specific course listings and all major requirements. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON104A may be taken		,	85					_	
Please note: MATH144 is a prerequisite requirement for MATH145A and MATH150A (also requires MATH09C & MATH010B with C- or better). Plan accordingly.ECON4ECON99<	One (1) additional social sciences cou	irse							
ETHNIC STUDIES (4 units minimum) requirement for MATH145A and Please review course offerings for othe May count towards addt'l humanities or addt'l social sciences, but not both MATH150A (also requires MATH009C & MATH100PC & MATH100B with C- or better). Plan Please review course offerings for othe BIOLOGICAL SCIENCES (4 units minimum) Refer to your university catalog year and degree audit for specific course listings and all major requirements. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON102A may be taken				Please note: MATH1	44 is a r	orerequisite			
May count towards addt'l humanities or addt'l social sciences, but not both MATH150A (also requires MATH009C & MATH100B with C- or better). Plan accordingly. ECON course availability, prerequisite and appropriate course planning. BIOLOGICAL SCIENCES (4 units minimum) Refer to your university catalog year and degree audit for specific course listings and all major requirements. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON104A may be taken	FTHNIC STUDIES (4 units minimu	(m)			-	-		-	r other
MATH010B with C- or better). Plan and appropriate course planning. BIOLOGICAL SCIENCES (4 units minimum) Refer to your university catalog year and degree audit for specific course listings and all major requirements. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON104A may be taken			t not both						
BIOLOGICAL SCIENCES (4 units minimum) accordingly. BIOLOGICAL SCIENCES (4 units minimum) Refer to your university catalog year and degree audit for specific course listings and all major requirements. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON104A may be taken PHYSICAL SCIENCE (4 units minimum) In lieu of ECON104A may be taken In lieu of ECON104A may be taken	They could to wards adder numanifies of adder social set			· · ·					
MATHEMATICS (4 units minimum) Refer to your university catalog year and degree audit for specific course listings and all major requirements. In lieu of ECON102A, 102B, 103A, ar 103B choices, either ECON102 or ECON102A PHYSICAL SCIENCE (4 units minimum) in lieu of ECON104A may be taken in lieu of ECON104A may be taken	BIOLOGICAL SCIENCES (4 units min	imum)							
MATHEMATICS (4 units minimum) degree audit for specific course listings and all major requirements. 103B choices, ether ECON102 of ECON102 of ECON104A may be taken PHYSICAL SCIENCE (4 units minimum) ia 4 b		lingin)	<mark></mark>			og vear and		,	
all major requirements. ECON104A may be taken	MATHEMATICS (A unite minimur	$\frac{1}{n}$	<u> </u>			0.			
PHYSICAL SCIENCE (4 units minimum)		<u>n)</u>				•	ECON104A may b	e taken	
Two additional 4-unit courses from life sciences or physical science	PHYSICAL SCIENCE (A units minin		L	an major requ					
Two additional 4-unit courses from life sciences or physical science					NIVER	RSITY OF C	CALIFORNIA Aemic	Advi	
	Two additional 4-unit courses from life sciences or	physica	1 science	UCRI	V	ERS	SIDE 2	19118	

Name:			MATH APPLIED ENSC COURSEWORK					
SID #:			MATH Ba	chelor	of Science (I	Fall 2017 catalog to curren	t)	
BREADTH REQUIREMENTS (180 units minimum to graduate, 216 max)			MATH Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA			MATH ENSC Option Concentration Upper-Division Coursework		
Common Breadth Courses			Course Of	<u>ferings</u>		Course Offerin	<u>1gs</u>	
English (12 units) - Grade of "C" or better is	s require	ed	Course Name	Units	Completed	The following must be ta	ken from t	the
Course Name	Units	Completed	MATH009A	4		MATH ENSC Core Co	ncentratio	on
ENGL001A	4		MATH009B	4		Course Name	Units G	rade
ENGL001B	4		MATH009C	4		MATH131	4	
ENGL001C	4		MATH031	5		MATH135A&B or 149A&B	8	
HUMANITIES (12 units minimum	1)		<u>CS010</u>	4		MATH146A	4	
One (1) course from: World History 10, 1	5, or 20		MATH010A	4		MATH146B	4	
			MATH010B	4		MATH146C	4	
One (1) course in: fine arts, literature, philosophy, o	r religio	us studies	MATH046	4		ENSC MATH Upper-D	ivision mu	ust
			CS011 is reco	mmend	ed	take the followi		
One (1) additional humanities cours	se	•				MATH149A	4	
			Science Sequences fo	or applie	ed ENSC	ENSC MATH Upper-D	ivision mu	ust
SOCIAL SCIENCES (12 units minim	um)		CHEM001A/01LA	5		take 2 of the following:		
One (1) course in: economics, political s			CHEM001B/01LB	5		MATH120	4	
			CHEM001C/01LC	5		MATH121	4	
One (1) course in: anthropology, psychology	, sociolc	ogy	Additional Lower	-Div Sc	iences	MATH135A	4	
			ENSC006/ECON006	4		MATH135B	4	
One (1) additional social sciences cou	irse		GEO001 (recommended)	4		MATH149B	4	
			Please note: MATH1	44 is a r	orerequsite	CS177	4	
ETHNIC STUDIES (4 units minimu		•	requirement for M	-	-	STAT155	4	
May count towards addt'l humanities or addt'l social scie	-	t not both	MATH150A (also requ			ENSC Upper-Div must take	the follow	ving:
			MATH010B with C- or				4	
BIOLOGICAL SCIENCES (4 units min	imum)		upper-div ENSC preqs.			ENSC101	4	
	<u> </u>		Refer to your universit			ENSC102	4	
MATHEMATICS (4 units minimur	n)		degree audit for specific	5	0,	Additional 4 units of upp		ISC
			all major requ		U	- wontronur i unite of app	4	~~
PHYSICAL SCIENCE (4 units minin	um)		5 1			Please review course offer	ngs for co	ourse
					enne aqui.	Please review course offerings for course availability, prerequisites, and appropriat		
Two additional 4-unit courses from life sciences or	nhysica	1 science		רב אין	A A			-
Two udditional T and courses from the selences of				DE catemic Adde		course planning. PLEASE NOTE: ENSC002 is a prerequisite for		
						ENSC upper-d	•	
							17.	

Name:			MATH APPLIED PHYS COURSEWORK MATH Bachelor of Science (Fall 2017 catalog to current)					
SID #:			MATH Da	chelor	of Science (f	rall 2017 catalog to curren	(1)	
BREADTH REQUIREMENTS (180 units minimum to graduate, 216 max)			MATH Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA			MATH PHYS Option Concentration Upper-Division Coursework		
Common Breadth Courses			Course Of	<u>ferings</u>		Course Offerin	<u>1gs</u>	
English (12 units) - Grade of "C" or better is	<mark>s require</mark>	ed	Course Name	Units	Completed	The following must be ta	ken fro	m the
Course Name	Units	Completed	MATH009A	4		MATH PHYS Core Co	ncentra	ation
ENGL001A	4		MATH009B	4		Course Name	Units	Grade
ENGL001B	4		MATH009C	4		MATH131	4	
ENGL001C	4		MATH031	5		MATH135A&B or 149A&B	8	
HUMANITIES (12 units minimum	1)		<u>CS010</u>	4		MATH146A	4	
One (1) course from: World History 10, 1	5, or 20		MATH010A	4		MATH146B	4	
			MATH010B	4		MATH146C	4	
One (1) course in: fine arts, literature, philosophy, o	<mark>r religio</mark>	us studies	MATH046	4		PHYS MATH Upper-D	ivision	must
			CS011 is reco	mmend	ed	take the followi	ng:	
One (1) additional humanities cours	se		Recommended Sci	ence Se	equence	MATH135A	4	
			for applied		1	MATH165A	4	
SOCIAL SCIENCES (12 units minim	um)	•	PHYS040A	5		Take 1 of the follo	wing:	
One (1) course in: economics, political s	,		PHYS040B	5		MATH120 or MATH171	4	
			PHYS040C	5		PHYS Upper-Division n	nust tak	the
One (1) course in: anthropology, psychology	sociol)gV	Please refer to prerequisite requirements			following:		
		·8)	for all MATH & F			PHYS130A	4	
One (1) additional social sciences cou	irse			11100	000000	PHYS130B	4	
			Please note: MATH1	44 is a r	orerequisite	Take 1 series of the fo	_	σ.
ETHNIC STUDIES (4 units minimu	(m)		requirement for M			PHYS135A, 135B, 136	12	5.
May count towards addt'l humanities or addt'l social scie	,	t not both	MATH150A (also requ			OR	12	
May count towards adder maintainties of adder social sex			MATH010B with C- or				8	
BIOLOGICAL SCIENCES (4 units min	imum)	1	upper-div PHYS preqs.			1111010011@1000	0	
DIOLOGICAL SCILIVELS (4 units initi		<mark> </mark>	Refer to your universit		<u> </u>	Please review course offeri	ngs for	course
MATHEMATICS (4 units minimur			degree audit for specific			availability, prerequisites, a	nd app	ropriate
			all major requ		-	course plannin	ıg.	
PHYSICAL SCIENCE (4 units minin								
				JNIVE	RSITY OF CA	ALIFORNIA demic Ad	č.	
Two additional 4-unit courses from life sciences or	nhysics	1 science			EDC		Ball	
1 wo additional 4-diff courses from the sciences of	<mark>physica</mark> I		UCR		L K 7		S	
						10 10	Les.	
						v .		

Name:			COMPUTATIONAL MATH COURSEWORK					
SID #:			MATH Ba	chelor	of Science (I	Fall 2017 catalog to currer	nt)	
BREADTH REQUIREMENTS (180 units minimum to graduate, 216 max)			MATH Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA			Computational MATH Concentration Lower & Upper-Division Coursework		
Common Breadth Courses	Common Breadth Courses		Course Of	<u>ferings</u>		Course Offeri	ngs	
English (12 units) - Grade of "C" or better is	s require	d	Course Name	Units	Completed	The following must be ta	ken from the	
Course Name	Units	Completed	MATH009A	4		MATH General Core C	oncentration	
ENGL001A	4		MATH009B	4		Course Name	Units Grade	
ENGL001B	4		MATH009C	4		MATH131	4	
ENGL001C	4		MATH031	5		MATH120	4	
HUMANITIES (12 units minimum	,		<u>CS010</u>	4		MATH132	4	
One (1) course from: World History 10, 1	5, or 20		MATH010A	4		MATH135A	4	
			MATH010B	4		MATH135B	4	
One (1) course in: fine arts, literature, philosophy, o	r religio	us studies	MATH046	4		Computational MATH concentra		
			MATH/CS011	4		must take the foll	owing:	
One (1) additional humanities course		Year of Science CS012			CS012	4		
			BIOL005, CHEM001,	or PHY	S040 Series	CS014	4	
SOCIAL SCIENCES (12 units minim	um)					CS141	4	
One (1) course in: economics, political s	cience					CS150	4	
						One addt'l CS from tec	chn elective	
One (1) course in: anthropology, psychology	, sociolo	gy	Please refer to prerequ	isite rec	quirements	CS	4	
			for all MATH			16 units of techn elective	chosen from	
One (1) additional social sciences cou	irse					CS111	4	
			Please note: MATH14	44 is a p	orerequsite	MATH121	4	
ETHNIC STUDIES (4 units minimu	m)		requirement for M	ATH14	5A and	MATH126	4	
May count towards addt'l humanities or addt'l social scie		t not both	MATH150A (also requ	ires MA	TH009C &	MATH146A	4	
			MATH010B with C-	or bett	er). Plan	MATH146B	4	
BIOLOGICAL SCIENCES (4 units min	imum)		accordir	ngly.		MATH146C	4	
			Refer to your universit	y catalo	g year and	MATH149A	4	
MATHEMATICS (4 units minimur	n)		degree audit for specific	•		MATH149B	4	
			all major requ	iremen	ts.	MATH171	4	
PHYSICAL SCIENCE (4 units minin	num)	·				CS130	4	
			UNIVERSITY OF CALIFOR	INIA De	A SISH	CS166	4	
Two additional 4-unit courses from life sciences or	physica	l science	UC RIVERSID	NIA demic Ad		CS170	4	
				L 4	1atua	CS177	4	