Score of Placeme 125 (eith 125 (eith	Prerequisites s in the following: Satisfactory 78 or higher on Mathematics the tourse with grade C- or
E	n the following: Satisfactory 78 or higher on Mathematics nt Exam, MATH 120 or MATH
A1	n the following: Satisfactory 78 or higher on Mathematics nt Exam, MATH 120 or MATH
Arts	n the following: Satisfactory 78 or higher on Mathematics nt Exam, MATH 120 or MATH
Doe from score of Placeme 125 (eith	n the following: Satisfactory 78 or higher on Mathematics nt Exam, MATH 120 or MATH
Score of Placeme 125 (eith 125 (eith	78 or higher on Mathematics nt Exam, MATH 120 or MATH
Second Semester (SPRING)	
Total:	2
E	14
A2	
A2	1
Humanities Social Science Life Science/Laboratory Activity MATH 131 Total: Total: Third Semester (FALL)	
Social Science	
B2/B3	
Calculus II	
Total: Third Semester (FALL)	3
Third Semester (FALL)	30 with grade C- or better.
Life Long Learning and Self-Development	
No. No.	
A3 PHIL 100 Workshop in Critical Thinking Code 1/D2 LD Major MATH 230 Calculus III MATH 13 Code 2 U.S. Code Total: Fourth Semester (SPRING)	1 3
U.S. Code 1/D2	3
LD Major MATH 230 Calculus III MATH 13	3
Code 2 U.S. Code Total: Fourth Semester (SPRING)	3
Total: Fourth Semester (SPRING)	31 with grade C- or better. 3
Fourth Semester (SPRING)	3
	16
LD Major MATH 215 Introduction to Linear Algebra MATH 13	
LD Major MATH 285 Introduction to Differential Equations	3
	31 with grade C- or better. 3 31 with grade C- or better. 3
Add'l C1 or C2* Arts/Humanities	si with grade c- or better.
F Ethnic Studies	3
Etime Studies	
Total:	15
Fifth Semester (FALL)	
UD Major MATH 320 Abstract Algebra I C- or bet	LO/215, MATH 300 with grade ter. 3
UD Major MATH Applied Mathematics Coursework	tei. 3
UD Major MATH Math Elective	3
UD-C/overlay UD Arts/Humanities	3
UWR	
Total:	15
Sixth Semester (SPRING)	
UD Major MATH 330 Analysis I MATH 30	
UD Major MATH Math Elective	3
UD Major MATH Applied Mathematics Coursework UD-D/Overlay UD Social Science	3
UD-D/Overlay UD Social Science Elective	3
Total:	15
Seventh Semester (FALL)	
UD Major MATH Theoretical Mathematics Coursework	3
UD Major MATH Math Elective	3
UD-B/Overlay UD Science Inquiry and Quantitative Reasoning	3
Elective	3
Elective	
Total:	2
Eighth Semester (SPRING)	
UD Major MATH Theoretical Mathematics Coursework	3
	ent consent. 3
Elective	
Elective	3
Elective	3
Total:	3

Note: No changes to, or from, the credit/no credit pattern are permitted after the Grade Type Change period. There are no exceptions to this rule. Courses in a student's major department, regardless of course prefix, may not be taken "CR/NC," unless that is the only grading pattern in the course.

Area A (9 units): Communication in the English Language & Critical Thinking (Must earn passing grade of C-/CR or better) ☐ A1. COMM 100 or 104, MLL 111 ☐ A2. ENGL 101, 102, or 104 ☐ A3. PHIL 100 Area B (9 units): Scientific Inquiry & Quantitative Reasoning ☐ B1. Physical Science ☐ B2. Life Science ☐ B3. Laboratory Activity ☐ B4. Quantitative Reasoning (Must earn passing grade of C-/CR or better.) Area C (9 units): Arts & Hun nities - Minimum of two different disciplines as designated by course prefix (e.g., ART, THEA, MUS) C1. Arts C2. Humanities *Additional Lower-division Area C Course in Arts (C1) or Humanities (C2) Area D (6 units): Social Sciences - Minimum of two different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC) □ D1. Area E (3 units): Lifelong Learning and Self-Development □ E. Area F (3 units): Ethnic Studies Second Composition : Requires completion of GE A2 with a C-/CR or better.

Must be completed before attaining junior standing. ☐ Second Composition **University Writing Requirement** □ UWR U.S. Code (American Institutions Requirement) - Two courses (6 units) covering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government). ☐ Code 1. ☐ Code 2 Upper Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) UD-B. Upper-division Science Inquiry and Quantitative Reasoning UD-C.Upper-division Arts OR Humanities ☐ UD-D. Upper-division Social Sciences

Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major ☐ Diversity (Div) ☐ Social Justice (SJ) ☐ Sustainability (S) **Applied Mathematics Coursework** Choose two (2) courses from the following for 6 units: MATH 370 - Numerical Analysis I Units: 3 MATH 380 - Linear Programming Units: 3 MATH 385 - Linear and Nonlinear Systems of Differential Equations Units: 3 (*) Theoretical Mathematics Coursework Choose two (2) courses from the following for 6 units: MATH 321 - Abstract Algebra II Units: 3 (*) MATH 331 - Analysis II Units: 3 MATH 340 - Modern Geometry Units: 3 (*) **Elective Courses** Choose three (3) elective courses from the following for 9 units: MATH 310 - Linear Algebra Theory MATH 360 - Number Theory Units: 3 (*) MATH 450 - Combinatorics Units: 3 MATH 497 - Topics in Advanced Mathematics Units: 3 Or any upper-division mathematics course(s) NOT used to fulfill other major requirements, except MATH 318. STAT 316 - Statistics and Probability for Science and Engineering Units: 3 (*) Making specific course choices within the Math B.S. leads to a certification for students applying for a credential program to teach high school mathematics. The certification, when accompanied by 45 hours of specific service requirements (which also fulfills a state requirement for admission into a teacher credential program), allows a student to waive taking the three required math California Subject Examinations for Teachers (CSETs). This major pathway is indicated throughout by asterisks (*) for each required course. Students should see the Single Subject Math Advisor when ready to plan for upper division **Students are required to take a minimum of 40 semester units as upper

CSUEB General Breadth and Graduation Requirement Checklist

division (includes 9 units upper division GE)

Total Units: