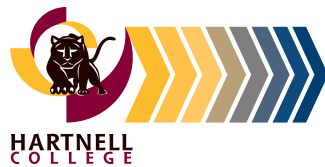


UNIVERSITY TRANSFER PLANNING RESOURCES



CSU Monterey Bay

<http://admissions.csUMB.edu/>

California State University

<http://www.csumentor.edu/>

University of California

<http://www.universityofcalifornia.edu/>

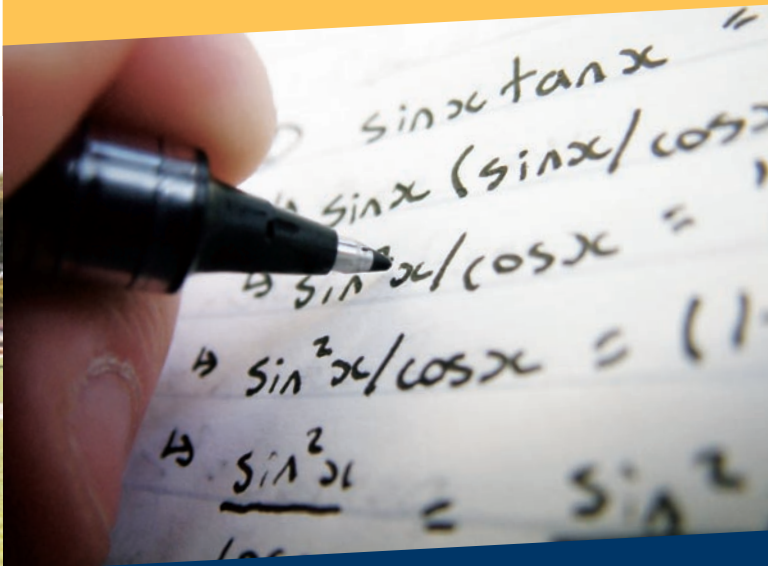
ASSIST: An Online Student-Transfer Information System

<http://www.assist.org/>



TRANSFER PROGRAM

Start your **Mathematics** studies at **Hartnell College** and complete your Bachelor's of Science in **Mathematics** at **CSU Monterey Bay**



What can you do with a Mathematics degree?

Architect	Financial Engineer
Accountant	Investment Officer
Actuary	Insurance Agent
Analyst	Mathematician
Applied Mathematician	Manager
Attorney	Media Specialist
Bank President	Modeler
Bookkeeper	Professor
Computer Programmer	Property Auditor
Computer Scientist	Research Director
Consultant	Research Scientist
Cost Estimator	Software Engineer
Cryptologist	Statistician
Director of Research	Teacher
Engineer	Quality Assurance Manager

GE COMPLETION AT HARTNELL COLLEGE

Students may complete 39 units of the 48 CSU GE requirements at Hartnell College, thereby requiring only 9 upper-division GE semester units at CSUMB.

CONTENT DISCLAIMER

At the time of printing, the content included in this brochure represented the most accurate information available, however, articulation agreements change regularly. For the most up-to-date transfer agreements and graduation requirements, you are advised to meet with a counselor.

HARTNELL COLLEGE

Studying *Mathematics* at Hartnell College

The Mathematics program offers course work in all levels of mathematics from arithmetic through differential equations and linear algebra. Students seeking improvement in their basic mathematical skills and those desiring development of advanced mathematical methods can all find meaningful activities in the mathematics program. While there are job opportunities in pure mathematics, there are even more in applied mathematics, statistics, engineering, and other technical fields relying heavily on mathematics. Positions for which four-year graduates in mathematics are qualified can be found in the fields of business, computers, teaching, and research.

For more information contact faculty members:

Leticia Contreras (lcontreras@hartnell.edu)

Kelly Locke (klocke@hartnell.edu)

Gregory Perkins (gperkins@hartnell.edu)

Start by making an appointment with a counselor

Hartnell can provide the courses you need to start a rewarding education that leads to a career in mathematics. Before beginning any college major or career path it is best to first talk to a counselor. The academic counselors at Hartnell College can give you career advice, help you plan your course schedule, and assist you in understanding the requirements for transfer to CSUMB. Schedule an appointment with **Ignacio Pando** at 831-755-6820 in Merrill Hall 21 (ipando@hartnell.edu) or **LaVerne Cook** at 831-755-6820 in CAB 371 (lcook@hartnell.edu).

CALIFORNIA STATE UNIVERSITY MONTEREY BAY

Mathematics B.S.

The Department of Mathematics and Statistics provides all undergraduate students with an education in mathematics that will serve as part of a foundation for life-long learning and preparation for graduate study, K-12 teaching, or employment. The department's goals are to:

- Teach students to communicate mathematical ideas effectively, synthesize information from multiple sources and perspectives, and use mathematical models and technology to solve practical problems.
- Establish an atmosphere of creative endeavor that supports interdisciplinary collaborations, innovative projects, significant research, interesting courses, and informal discussions that mutually benefit students, faculty and the community at large.

For more information contact faculty advisors:

Michael B. Scott (mscott@csUMB.edu)

Heath Proskin (hproskin@csUMB.edu)

Rachel Esselstein (resselstein@csUMB.edu)

Hongde Hu (hhu@csUMB.edu)

Lipika Deka (ldeka@csUMB.edu)

Joanne Lieberman (jlieberman@csUMB.edu)

Don Pierce (dpierce@csUMB.edu)

Mathematics and Statistics Department Chapman Academic Science Center

100 Campus Center
Seaside CA 93955-8001
831-582-4118
email: math@csUMB.edu

Office Hours: Monday–Friday
9:00 a.m.–5:00 p.m.

<http://math.csUMB.edu/>

Lower-Division Core Requirements for *Mathematics* majors

Hartnell College	CSU Monterey Bay
MAT 3A Analytic Geometry and Calculus I	MATH 150: Calculus I & MATH 150L: Lab
MAT 3B Analytic Geometry and Calculus II	MATH 151: Calculus II & MATH 151L: Lab
MAT 3C Analytic Geometry and Calculus III	MATH 250: Multivariate Calculus
<i>No Equivalent at Hartnell; however, students can take this course at CSUMB as Cross Enrollment</i>	MATH 170: Discrete Mathematics
CSS 1 Intro to Computer Science & Programming Fundamentals OR CSS 2A Object Oriented Programming	CST 231: Problem-Solving/Programming & CST 231L: Lab

Mathematics majors will complete all lower-division Core Requirements listed above and select one concentration and complete requirements listed below:

Pure Mathematics concentration requirements:

All courses within this concentration are upper-division and are not articulated.

Secondary Teaching concentration requirements:

All courses within this concentration are upper-division and are not articulated.

Additional CSUMB Graduation Requirements (non-GE) that may be taken at Hartnell College

CSS 43 Computer Systems and Internet Literacy	CST 101 or ENVS 300L
Foreign language up through the 3 rd semester	Foreign language up through the 3 rd semester

CSUMB Graduation Learning Outcomes:

CSUMB has four graduation learning outcomes, two of which are fulfilled in the Mathematics major, and the other two of which (technology/information competence and 2nd language proficiency) may be completed at Hartnell with CSS 43 and the third semester of a foreign language.

Requirements for *Mathematics* majors

CSU Monterey Bay	
Year 3	Year 4
Lower-Division Mathematics Core:	
MATH 170 Discrete Mathematics	
Upper-Division Mathematics Core:	
MATH 300: Major ProSeminar MATH 320: Probability and Statistics MATH 322: Foundations of Modern Mathematics MATH 330: Linear Algebra MATH 361S: Mathematics Tutors Service Learning	MATH 400: Capstone Preparation MATH 401: Capstone MATH 410: Modern Algebra I (year 3 or year 4) MATH 420: Mathematical Analysis I (year 3 or year 4)
Pure Mathematics concentration requirements (can be taken in year 3 or year 4):	
	MATH 340: Differential Equations OR MATH 370: Logic and Computation MATH 411: Modern Algebra II MATH 421: Mathematical Analysis II
Secondary Teaching concentration requirements (can be taken in year 3 or year 4):	
	MATH 325: Number Theory MATH 326: History of Mathematics MATH 329: College Geometry

University Learning Requirements (ULRs)

The State of California requires completion of a 48 unit General Education (GE) Breadth program that includes a minimum of 9 upper-division GE semester units. At CSUMB, these GE courses are identified as ULRs.

Graduation Writing Assessment Requirement (GWAR)

Mathematics majors fulfill this requirement with Math 300.

