

MATHEMATICS

Computerized prerequisite verification is required to enroll in Math.

All students enrolling in a math class must have in the Cabrillo computer system either Cabrillo math assessment scores, prerequisite course grade, or transcripts verifying their math preparation. It is strongly recommended that the prerequisite course work not be more than two years old. A minimum grade of "C" is required in the prerequisite course.

New students without transfer credit in math from another college must complete assessment in math before attempting to enroll in any math course that has a prerequisite.

New students with transfer credit in math from another college and high school students with math AP exam scores of 3 or higher do not need to assess but must see a counselor to have their records input into the computer before attempting to register.

High school students without appropriate AP scores must complete assessment in math and may not enroll in high school equivalent courses.

Minors without a high school diploma may not enroll in Math 254, 254A or 254B.

Notice: The following resources are available for drop-in tutoring for Cabrillo students enrolled in math classes: Math Learning Center (MLC), Room 1074, and the Integrated Learning Center, Room 4410, in the Watsonville Center. Students in the pre-calculus and calculus sequence, including MATH 6 and 7, are strongly encouraged to utilize the services of the MESA Transfer Center in Room 714. Hours of operation will be posted at the Centers and outside the NAS Division Office, Room 701.

NEW THIS FALL: MATH 2 and MATH 3, a two-course alternative to MATH 4. They can be taken concurrently.

MATH 2 Precalculus Algebra

Presents functions and their properties including polynomial, rational, exponential and logarithmic functions and their graphs, inverses and applications. May not be taken pass/no pass. Prerequisite: MATH 152 or equivalent skills.

Transfer Credit: CSU; UC, pending review.

Section	Days	Times	Units	Instructor	Room
64540	MW	08:00AM-10:05AM	4.00	C.Dyer	708
64541	TTH	09:30AM-11:35AM	4.00	D.Reynolds	708
64542	TTH	11:10AM-01:15PM	4.00	J.Cristobal	715
64543	MW	11:45AM-01:50PM	4.00	A.Taurke	708
64544	TTH	01:25PM-03:30PM	4.00	J.Cristobal	708
64545	MW	06:00PM-08:05PM	4.00	M.Desmet	712

Course MAY require extensive use of a graphing calculator. See instructor for details.

MATH 3 Precalculus Trigonometry

Presents right and oblique triangle trigonometry with applications including vectors, graphing, identities, trigonometric equations, and trigonometric and inverse trigonometric functions. May not be taken pass/no pass. Prerequisite: MATH 152 or equivalent skills. Recommended Preparation: MATH 153 or high school geometry or equivalent skills.

Transfer Credit: CSU.

Section	Days	Times	Units	Instructor	Room
64546	TTH	08:00AM-09:20AM	3.00	C.Dyer	708
64547	MW	10:15AM-11:35AM	3.00	A.Taurke	708
64548	TTH	11:45AM-01:05PM	3.00	A.Taurke	708

Course MAY require extensive use of a graphing calculator. See instructor for details.

MATH 4 PreCalculus Algebra and Trigonometry

Covers topics in MATH 2 and MATH 3 and is designed for the motivated student able to fulfill the requirements of both courses in a single course. May not be taken pass/no pass. Prerequisite: MATH 152 or equivalent skills. Recommended Preparation: MATH 153 or high school geometry or equivalent skills.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
63840	MW	08:00AM-10:25AM	5.00	B.Krein	711
63841	TTH	08:00AM-10:25AM	5.00	M.Eastman	709
63842	MW	11:00AM-01:25PM	5.00	L.Simcik	715
63843	TTH	06:00PM-08:25PM	5.00	M.Miller	708

Course MAY require extensive use of a graphing calculator. See instructor for details.

MATH 5A Analytic Geometry and Calculus I

Designed for majors in mathematics, engineering and physical sciences: plane analytic geometry of lines and graphing, differential calculus of algebraic and transcendental functions of one variable with applications. May not be taken pass/no pass. Prerequisite: MATH 2 & MATH 3 or MATH 4 or equivalent skills.

Transfer Credit: CSU; UC with limits: MATH 5A & 18 combined-maximum credit-1 course.

Section	Days	Times	Units	Instructor	Room
63856	MW	08:00AM-10:25AM	4.00	R.Stidham	709
63857	TTH	08:00AM-10:25AM	4.00	N.Fetterman	711
63858	MTWTH	11:10AM-12:20PM	4.00	D.Morgali	711
63859	MW	02:10PM-04:35PM	4.00	R.Reed	708
63860	TTH	06:00PM-08:25PM	4.00	E.Braunhut	707

Course MAY require extensive use of a graphing calculator. See instructor for details.

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MATH 5B Analytic Geometry and Calculus II

Designed for majors in mathematics, engineering and physical sciences. May not be taken pass/no pass. Prerequisite: MATH 5A or equivalent skills.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
63861	MWF	07:50AM-09:20AM	4.00	M.Eastman	715
63862	MTWTH	08:00AM-09:10AM	4.00	A.Taurke	718
63863	TTH	02:10PM-04:35PM	4.00	D.Morgali	828

Course MAY require extensive use of a graphing calculator. See instructor for details.

MATH 5C Analytic Geometry and Calculus III

Designed for majors in mathematics, engineering, and physical sciences. May not be taken pass/no pass. Prerequisite: MATH 5B or equivalent skills.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
63864	MTWTH	08:00AM-09:10AM	4.00	D.Viglienzoni	707
63865	MW	06:00PM-08:25PM	4.00	J.Bass	707

Course MAY require extensive use of a graphing calculator. See instructor for details.

MATH 7 Introduction to Differential Equations

An introductory course in Differential Equations: first order, second order, homogeneous, nonhomogeneous, variation of constants, applications. May not be taken pass/no pass. Prerequisite: MATH 5C or equivalent skills.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
63866	TTH	08:00AM-09:20AM	3.00	B.Krein	715

MATH 10 Survey of College Mathematics

A survey course in mathematics that uses intermediate algebra skills to examine the concepts and applications of various topics. Prerequisite: MATH 152 or equivalent skills.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
63746	MW	11:10AM-12:30PM	3.00	STAFF	716
63747	TTH	12:40PM-02:00PM	3.00	D.Sifry	707
63748	TTH	03:15PM-04:35PM	3.00	M.Miller	713
63749	T	06:00PM-09:05PM	3.00	F.Maisch	713

MATH 12 Elementary Statistics

Presents histograms, measures of central tendency and dispersion, probability, binomial and normal distributions, estimation and hypothesis testing, regression and correlation Prerequisite: MATH 152 or equivalent skills. Recommended Preparation: CABT 106.

Transfer Credit: CSU; UC with limits: MATH 12 combined with BUS 9-maximum credit-1 course.

Section	Days	Times	Units	Instructor	Room
63750	Arr.	Arr.	4.00	M.Laddon	OL

Section 63750 is an ONLINE course. Required orientation Saturday 8/29 (before the start of semester) from 10:00AM to 12:00PM in Room 825. Use of a TI 83, 83+/84+ graphing calculator is required. Students will complete exams on campus on 9/28, 10/19, 11/16, and 12/14. For details, please see instructor's web page at www.cabrillo.edu/services/disted/ "Distance Courses."

63751	Arr.	Arr.	4.00	J.Cass	OL
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Section 63751 is an ONLINE course. Required orientation Saturday 8/29 (before start of semester) from 10:00AM to 12:00PM in Room 825. Use of a TI 83+/84+ graphing calculator is required. Students will complete exams on campus on 9/27, 10/18, 11/15, and 12/13. For details, please see instructor's web page at www.cabrillo.edu/services/disted/ "Distance Courses."

63752	MTWTH	08:00AM-09:10AM	4.00	J.Krause	713
63753	TTH	08:00AM-10:25AM	4.00	J.Pickering	828
63756	MW	08:30AM-10:55AM	4.00	V.Ramos	Wat4440
63754	MTWTH	09:30AM-10:40AM	4.00	J.Krause	713
63755	MTWTH	11:10AM-12:20PM	4.00	D.Viglienzoni	707
63757	MW	12:40PM-03:05PM	4.00	D.Morgali	707
63758	TTH	12:40PM-03:05PM	4.00	J.Cass	713
63759	TTH	06:00PM-08:25PM	4.00	E.Venable	711

Course MAY require extensive use of a graphing calculator. See instructor for details.

MATH 13 Finite Mathematics

Set theory, linear programming, matrices, mathematics of finance, probability, with applications to business and the social sciences. Prerequisite: MATH 152 or equivalent skills.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
63761	MW	09:30AM-10:50AM	3.00	STAFF	715
63762	TTH	11:10AM-12:30PM	3.00	M.Laddon	709

MATH 18 Business Calculus

Provides an intuitive introduction to differential and integral calculus for functions of one variable and an introduction to functions of several variables including partial differentiation and maxima/minima problems. Prerequisites: MATH 152 or equivalent skills.

Transfer Credit: CSU; UC with limits: MATH 5A & 18 combined-maximum credit-1 course.

Section	Days	Times	Units	Instructor	Room
63818	MW	11:10AM-12:30PM	3.00	D.Reynolds	709
63819	TTH	12:40PM-02:00PM	3.00	D.Reynolds	711

MATH 152 Intermediate Algebra 

Further development of algebra skills acquired in elementary algebra, which include the system of real numbers, polynomials, algebraic equations (linear, systems of linear, quadratic, and applications). May not be taken pass/no pass credit. Prerequisite: MATH 154 or equivalent skills.

Section	Days	Times	Units	Instructor	Room
63763	Arr.	Arr.	4.00	D.Reynolds	OL
Section 63763 is an ONLINE course. Required orientation Saturday 8/29 (before start of semester), from 1:00PM-2:30PM in Room 1097. Students will complete exams on campus on 9/27, 10/18, 11/15, 12/6, and 12/19. Whether you are enrolled or on the waitlist, e-mail the instructor at dareynol@cabrillo.edu. For details, please see instructor's web page at www.cabrillo.edu/services/disted/ "Distance Courses."					
63764	MTWTH	08:00AM-09:10AM	4.00	A.Lobato	712
63765	MTWTH	08:00AM-09:10AM	4.00	D.Reynolds	1301
63767	MW	08:30AM-10:55AM	4.00	S.Ward	Wat4460
63768	MW	08:30AM-10:55AM	4.00	L.Peacemaker	SV04
63769	MTWTH	09:30AM-10:40AM	4.00	D.Viglienzoni	707
63770	MTWTH	09:30AM-10:40AM	4.00	A.Lobato	712
63771	TTH	10:00AM-12:25PM	4.00	B.Krein	1301
63772	MW	11:10AM-01:35PM	4.00	R.Stidham	718
63773	MW	11:10AM-01:35PM	4.00	B.Krein	1301
63774	TTH	11:10AM-01:35PM	4.00	R.Stidham	718
63766	MW	11:30AM-01:55PM	4.00	V.Ramos	Wat4440
63775	MW	12:40PM-03:05PM	4.00	G.Rodriguez	709
63777	MW	12:40PM-03:05PM	4.00	J.Krause	828
63776	TTH	12:40PM-03:05PM	4.00	J.Krause	709
63778	MW	01:30PM-03:55PM	4.00	L.Meyer	717
63781	MW	02:10PM-04:35PM	4.00	L.Simcik	825
63779	TTH	02:10PM-04:35PM	4.00	L.Simcik	711
63780	TTH	02:10PM-04:35PM	4.00	V.Ramos	707
63782	MW	03:15PM-05:40PM	4.00	E.Chovick	707
63783	MW	03:15PM-05:40PM	4.00	W.Wallace	711
63784	TTH	03:15PM-05:40PM	4.00	A.Berman	709
63785	MW	06:00PM-08:25PM	4.00	J.Burns	708
63786	MW	06:00PM-08:25PM	4.00	J.Malokas	Wat4420
63787	TTH	06:00PM-08:25PM	4.00	A.Berman	709

MATH 152A Intermediate Algebra–First Half

Presents the first half of Intermediate Algebra and is designed for a wide variety of students, including those who have been unsuccessful in MATH 152, are math anxious, or desire a slower paced, year-long version of MATH 152. May not be taken pass/no pass. Prerequisite: MATH 154 or equivalent skills.

Section	Days	Times	Units	Instructor	Room
63790	MW	12:40PM-02:00PM	2.00	J.Cass	713
&	M	02:10PM-03:00PM		J.Cass	713

MATH 153 Plane Geometry

Introduces the vocabulary and principles of Euclidean geometry, developing critical thinking skills using inductive and deductive reasoning while exploring the concepts of congruence and similarity, the properties of angles, lines, polygons, circles, and solids. Prerequisites: MATH 154 or equivalent skills.

Section	Days	Times	Units	Instructor	Room
63791	TTH	01:40PM-03:00PM	3.00	J.Burns	716

MATH 154 Elementary Algebra 

Presents a systematic development of numbers, polynomials and polynomial fractions. May not be taken pass/no pass. Prerequisite: MATH 254 or equivalent skills.

Section	Days	Times	Units	Instructor	Room
63792	Arr.	Arr.	4.00	V.Lundquist	OL
Section 63792 is an ONLINE course. Required orientation Saturday 8/29 (before start of semester), from 10:00AM-11:30AM in Room 711. Students will be required to complete exams on campus on 9/21, 10/12, 11/10, 12/7, and 12/14. Whether you have enrolled or are on the waitlist, e-mail the instructor at velundqu@cabrillo.edu. For details, see instructor's web page at www.cabrillo.edu/services/disted/ "Distance Courses."					
63793	MTWTH	08:00AM-09:10AM	4.00	V.Lundquist	716
63794	MW	08:30AM-10:55AM	4.00	M.Laddon	Wat4420
Designed for Digital Bridge Academy students, but open to all who meet the prerequisite.					
63795	TTH	08:30AM-10:55AM	4.00	S.Dauphin	SV04
63796	MTWTH	09:30AM-10:40AM	4.00	M.Caspers	718
63797	MTWTH	09:30AM-10:40AM	4.00	V.Lundquist	716
63798	MTWTH	11:10AM-12:20PM	4.00	M.Caspers	713
63799	MW	11:10AM-01:35PM	4.00	M.Buchanan	Wat4420
63800	MW	12:40PM-03:05PM	4.00	L.Shipley	711
63801	MW	12:40PM-03:05PM	4.00	A.Lobato	716
63802	TTH	12:40PM-03:05PM	4.00	M.Eastman	825
63803	TTH	12:40PM-03:05PM	4.00	A.Lobato	1301
63804	MW	02:10PM-04:35PM	4.00	F.Maisch	718
63805	TTH	02:10PM-04:35PM	4.00	R.Stidham	718
63806	TTH	02:10PM-04:35PM	4.00	S.Politis	712
63807	MW	03:15PM-05:40PM	4.00	G.Rodriguez	709
63808	MW	06:00PM-08:25PM	4.00	G.Rodriguez	709
63809	TTH	06:00PM-08:25PM	4.00	S.Politis	712
63810	TTH	06:00PM-08:25PM	4.00	STAFF	Wat4420

MATH 154A Elementary Algebra-First Half

Designed for a wide variety of students, including those who have been unsuccessful in MATH 154, are math anxious, have learning disabilities in mathematics, or desire a slower paced, year-long version of MATH 154. May not be taken pass/no pass. Prerequisite: MATH 254 or equivalent skills.

Section	Days	Times	Units	Instructor	Room
63812	MTWTH	11:10AM-12:20PM	2.00	N.Fetterman	712
&	TWTH	12:30PM-01:45PM		N.Fetterman	712
63813	TWTH	06:30PM-08:00PM	2.00	M.Buchanan	Wat4440
&	TW	08:10PM-09:00PM		M.Buchanan	Wat4440
&	Arr.	Arr.		STAFF	Wat4410

+ 2 hr 5 min arranged per week in the ILC.

MATH 158BF Algebra Review- Basic Factoring  

This independent instruction module covers prerequisite skills for factoring followed by extensive drill on the five factoring techniques typically included in an elementary algebra course. Pass/No Pass grading only. Corequisite: MATH 154 (or higher level math course.)

Section	Days	Times	Units	Instructor	Room
64526	Arr.	Arr.	0.50	E.Braunhut	1074

1 hr 20 min arranged per week. Open entry/Open exit. Students may register through the 12th week.

  indicate open entry classes—open through the 12th week of instruction  indicate writing factor classes;  Honors classes;  indicate multicultural classes;  indicate health and wellness classes  some sections of this course are taught in a distance education format.

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MATH 158PF Algebra Review-Polynomial Fractions **0/E**

This independent instruction module covers addition and subtraction of polynomial fractions at the level of elementary algebra. Pass/No Pass grading only. Corequisite: MATH 154 (or higher level math course).

Section	Days	Times	Units	Instructor	Room
64527	Arr.	Arr.	0.50	E.Braunhut	1074

1 hr 20 min arranged per week. Open entry/Open exit. Students may register through the 12th week.

MATH 158SI Using the Metric System **0/E**

This independent instruction module introduces the units and uses of the metric system and its applications. Pass/No Pass grading only. Corequisite: MATH 154 (or higher level math course.)

Section	Days	Times	Units	Instructor	Room
63815	Arr.	Arr.	0.50	E.Braunhut	1074

1 hr 20 min arranged per week. Open entry/Open exit. Students may register through the 12th week.

MATH 158T Preparation for Tutoring Mathematics **0/E**

Provides tutoring techniques and hands-on training for math tutors and those interested in tutoring mathematics. Pass/No Pass grading only. Recommended Preparation: MATH 4 or equivalent skills. Grade of at least a "B" in recently completed math classes. Repeatability: May be taken 2 times.

Section	Days	Times	Units	Instructor	Room
63816	Arr.	Arr.	1.00	E.Braunhut	1074
63817	Arr.	Arr.	1.00	S.Tappero	714

3 hr 5 min arranged per week. Open entry/Open exit.
3 hr 5 min arranged per week. Open entry/Open exit.

MATH 254 Essential Mathematics **0/E**

Presents topics using computer software, assisted by the instructor, and covers arithmetic procedures involving whole numbers, fractions, decimals, percent, integrated with signed numbers, equations, statistics, proportions, graphing, and geometry.

Section	Days	Times	Units	Instructor	Room
63820	Arr.	Arr.	3.00	G.Rodriguez	OL

Section 63820 is an ONLINE course. Students will complete exams on campus on 9/29, 10/27, 12/1, and 12/15. See instructor's web page for information about the REQUIRED online orientation. Enrolled and waitlisted students must e-mail the instructor at garodrig@cabrillo.edu by the first day of the semester. For details, see instructor's web page at www.cabrillo.edu/services/disted/ "Distance Courses."

63821	MW & Arr.	08:30AM-10:20AM	3.00	J.Malokas STAFF	Wat4550 Wat4410
+ 2 hr 10 min open lab per week.					
63822	MW & Arr.	09:00AM-10:50AM	3.00	M.DeSmet E.Braunhut	1097 1074
+ 2 hr 10 min open lab per week.					
63823	TTH & Arr.	09:00AM-10:50AM	3.00	L.Meyer E.Braunhut	1097 1074
+ 2 hr 10 min open lab per week.					
63824	MW & Arr.	11:00AM-12:50PM	3.00	R.Shiosaki E.Braunhut	1097 1074
+ 2 hr 10 min open lab per week.					
63825	TTH & Arr.	11:00AM-12:50PM	3.00	L.Meyer E.Braunhut	1097 1074
+ 2 hr 10 min open lab per week.					
63826	MW & Arr.	01:00PM-02:50PM	3.00	M.DeSmet E.Braunhut	1097 1074
+ 2 hr 10 min open lab per week.					

63827	TTH & Arr.	01:00PM-02:50PM	3.00	STAFF E.Braunhut	1097 1074
+ 2 hr 10 min open lab per week.					
63828	TH & Arr.	05:00PM-09:05PM	3.00	W.Wallace E.Braunhut	1097 1074
+ 2 hr 5 min open lab per week.					

MATH 254A Essential Mathematics—First Half


Covers arithmetic procedures involving whole numbers, fractions, and decimals integrated with equations and proportions.

Section	Days	Times	Units	Instructor	Room
63830	TTH & Arr.	08:30AM-09:50AM 10:00AM-10:50AM	2.00	J.Cristobal J.Cristobal E.Braunhut	717 717 1074
+ 1 hr 5 min open lab per week in MLC.					
63831	MW & Arr.	11:00AM-12:20PM 10:00AM-10:50AM	2.00	L.Shipley L. Shipley E.Braunhut	717 717 1074
+ 1 hr 5 min open lab per week in MLC.					
63832	TTH & Arr.	11:00AM-12:20PM 10:00AM-10:50AM	2.00	D.Sifry D. Sifry E.Braunhut	717 717 1074
+ 1 hr 5 min open lab per week in MLC.					
63833	MW & Arr.	11:10AM-12:30PM 12:40PM-01:30PM	2.00	S.Ward S.Ward STAFF	Wat4460 Wat4460 Wat4410
+ 1 hr 5 min open lab per week in ILC.					
63834	TTH & Arr.	01:30PM-02:50PM 03:00PM-03:50PM	2.00	L.Meyer L.Meyer E.Braunhut	717 717 1074
+ 1 hr 5 min open lab per week in MLC.					
63835	MW & Arr.	02:10PM-03:30PM 03:40PM-04:30PM	2.00	J.Bass J.Bass E.Braunhut	712 712 1074
+ 1 hr 5 min open lab per week in MLC.					
63836	MW & Arr.	06:30PM-07:50PM 08:00PM-08:50PM	2.00	J.Wagner J.Wagner STAFF	Wat4460 Wat4460 Wat4410
+ 1 hr 5 min open lab per week in ILC.					

MATH 254B Essential Mathematics—Second Half

Continuation of arithmetic studies of MATH 254A with decimals and percent integrated with signed numbers, equations, proportion, statistics and graphing. This course is the second half of MATH 254. Prerequisite: MATH 254A.

Section	Days	Times	Units	Instructor	Room
63837	MW & Arr.	08:30AM-09:50AM 10:00AM-10:50AM	2.00	J.Cass J.Cass E.Braunhut	717 717 1074
+ 1 hr 5 min open lab per week in MLC.					
63838	TTH & Arr.	11:10AM-12:30PM 12:40PM-01:30PM	2.00	M.Miller M.Miller E.Braunhut	716 716 1074
+ 1 hr 5 min open lab per week in MLC.					

MATH 502 Supervised Tutoring  

Supervised individual and group drop-in tutoring assistance in basic skills, high school equivalent, and transfer mathematics courses, including mathematics applications found in science courses. Repeatable with each enrollment in mathematics.

Section	Days	Times	Units	Instructor	Room
63850	Arr.	Arr.	0.00	E.Braunhut	1074
5 hr 10 min arranged per week.					
63851	Arr.	Arr.	0.00	E.Braunhut	1074
5 hr 10 min arranged per week.					
63852	Arr.	Arr.	0.00	E.Braunhut	1074
5 hr 10 min arranged per week.					
63853	Arr.	Arr.	0.00	STAFF	Wat4410
5 hr 10 min arranged per week.					
63854	Arr.	Arr.	0.00	S.Tappero	714
5 hr 10 min arranged per week.					