

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 254CM, 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 precalculus 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: 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.

Section	Days	Times	Units	Instructor	Room
66643	TTH	08:00AM-10:05AM	4.00	J.Pickering	828
66644	MW	09:30AM-11:35AM	4.00	M.Caspers	718
66645	TTH	11:10AM-01:15PM	4.00	M.Caspers	716
66646	MW	02:10PM-04:15PM	4.00	M.DeSmet	712
66647	TTH	06:30PM-08:35PM	4.00	R.Reed	708

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
66648	TTH	09:30AM-10:50AM	3.00	D.Reynolds	718
66649	MW	11:10AM-12:30PM	3.00	D.Reynolds	716
66650	TTH	12:40PM-02:00PM	3.00	D.Reynolds	711

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
66018	TTH	08:00AM-10:25AM	5.00	B.Krein	716
66019	MW	09:30AM-11:55AM	5.00	B.Krein	708
66020	MW	11:10AM-01:35PM	5.00	L.Simcik	715
66021	TTH	03:15PM-05:40PM	5.00	R.Reed	708
66022	MW	06:00PM-08:25PM	5.00	M.DeSmet	709

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 and 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
66663	MW	08:00AM-10:25AM	4.00	V.Ramos	711
66664	TTH	08:00AM-10:25AM	4.00	N.Fetterman	711
66665	MTWTH	09:30AM-10:40AM	4.00	D.Viglienzoni	707
66666	MW	12:40PM-03:05PM	4.00	R.Stidham	709
66667	TTH	12:40PM-03:05PM	4.00	L.Simcik	708

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

Cabrillo College *Schedule of Classes* – Spring, 2009

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
66668	MW	08:00AM-10:25AM	4.00	D.Reynolds	716
66669	TTH	11:10AM-01:35PM	4.00	M.Eastman	718
66670	TTH	06:00PM-08:25PM	4.00	C.Dyer	711

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
66671	MWF	07:50AM-09:20AM	4.00	M.Eastman	718
66672	MW	02:30PM-04:55PM	4.00	D.Morgali	828

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

MATH 6 Introduction to Linear Algebra

Introduces linear algebra, including vectors in n-dimensional R, matrices, row reductions, inverse matrices, determinants, vector spaces, basis, change of basis, linear independence, transformations, eigenvalues, eigenvectors, and the Gram-Schmidt process. Offered spring only. May not be taken pass/no pass. Prerequisite: MATH 5C or equivalent skills.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
66044	TTH	08:00AM-09:20AM	3.00	M.Eastman	708

MATH 7 Introduction to Differential Equations

Presents an introductory course in Differential Equations: first order, second order, homogeneous, nonhomogeneous, variation of parameters, applications, simple linear systems with constant coefficients, Laplace transforms, and Euler's method. May not be taken pass/no pass. Prerequisite: MATH 5C or equivalent skills.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
66045	MW	08:00AM-09:20AM	3.00	B.Krein	708

MATH 10 Survey of College Mathematics

Presents concepts and applications of various topics in mathematics that use intermediate algebra skills. Prerequisite: MATH 152 or equivalent skills.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
65939	MW	08:00AM-09:20AM	3.00	STAFF	1301
65940	TTH	09:30AM-10:50AM	3.00	D.Sifry	708
65941	TTH	02:10PM-03:30PM	3.00	J.Burns	718

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.

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

Section	Days	Times	Units	Instructor	Room
65943	Arr.	Arr.	4.00	J.Cass	OL
Section 65943 is an ONLINE course. Students will complete exams on campus on 3/10, 4/7, 5/5, and 6/2. Required orientation Sunday 2/7 (before the start of semester) from 4:00PM-6:00PM in Room 825. Use of a TI 83+/84+ calculator is required. For details, see instructor's web page at www.cabrillo.edu/services/disted/ "Distance Courses."					
65944	MTWTH	08:00AM-09:10AM	4.00	J.Krause	713
65945	MTWTH	08:00AM-09:10AM	4.00	J.Cristobal	715
65946	MTWTH	09:30AM-10:40AM	4.00	J.Krause	713
65947	MTWTH	11:10AM-12:20PM	4.00	J.Cristobal	711
65948	MTWTH	11:10AM-12:20PM	4.00	M.Laddon	713
65949	TTH	11:10AM-01:35PM	4.00	D.Morgali	715
65950	TTH	12:40PM-03:05PM	4.00	B.Krein	825
65951	TTH	02:10PM-04:35PM	4.00	D.Morgali	828
65952	MW	03:15PM-05:40PM	4.00	J.Pickering	711
65953	TTH	03:15PM-05:40PM	4.00	J.Cass	825
66651	TTH	06:00PM-08:25PM	4.00	E.Venable	713

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

MATH 13 Finite Mathematics

Presents 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
65954	MW	12:40PM-02:00PM	3.00	C.Dyer	718
65955	W	06:00PM-09:05PM	3.00	W.Wallace	713

MATH 15 Number Systems

Provides an understanding of the nature of arithmetic and the structure of mathematical systems as used by liberal arts students and prospective elementary teachers. Offered spring only. Prerequisite: MATH 152 and MATH 153 or equivalent skills.

Transfer Credit: CSU; UC. Does not meet the UC math admissions requirement.

Section	Days	Times	Units	Instructor	Room
66652	M	03:30PM-05:35PM	3.00	J.Burns	713
&	W	03:30PM-05:20PM		J.Burns	713

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. Prerequisite: 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
65999	TTH	11:10AM-12:30PM	3.00	A.Miller	708
66000	W	06:00PM-09:05PM	3.00	L.Peacemaker	712

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MATH 23 Discrete Mathematics

Presents discrete mathematical systems including methods of proof that shape the foundations of computer science. Offered spring only even years. Prerequisites: MATH 5A or equivalent skills. Recommended Preparation: CS 19 or CS 20J or equivalent skills.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
66655 &	TTH & Arr.	03:30PM-04:50PM Arr.	4.00	S.Nerton S.Nerton	2501 OL

Section 66655 is a Hybrid ONLINE course. It meets weekly throughout the semester at the scheduled times with an additional 3 hr 5 min online lab per week. For details see instructor's web page at www.cabrillo.edu/services/disted/ "Distance Courses."

MATH 152 Intermediate Algebra

Continues 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
66748	Arr.	Arr.	5.00	D.Reynolds	OL

Section 66748 is an ONLINE course. Students will complete exams on campus on 3/6, 3/27, 5/1, 5/22 and 6/5 in Room 828. Required orientation Saturday 2/6 (before the start of semester), from 1:00PM-2:30PM in Room 1097. Whether you are enrolled or on the waitlist, e-mail the instructor at dareynol@cabrillo.edu. For details, see instructor's web page at www.cabrillo.edu/services/disted/ "Distance Courses."

66749	MTWTH	08:00AM-09:10AM	5.00	R.Stidham	709
66750	MTWTH	08:00AM-09:10AM	5.00	M.Laddon	712
66751	MW	08:30AM-10:55AM	5.00	L.Shipley	SV04
66752	MTWTH	09:30AM-10:40AM	5.00	R.Stidham	709
66753	MTWTH	09:30AM-10:40AM	5.00	A.Taurke	1301
66754	MTWTH	09:30AM-10:40AM	5.00	A.Lobato	Wat4420
66755	MTWTH	11:10AM-12:20PM	5.00	D.Viglienzoni	707
66756	MTWTH	11:10AM-12:20PM	5.00	V.Lundquist	1301
66757	MW	11:10AM-01:35PM	5.00	A.Lobato	Wat4420
66758	MW	12:40PM-03:05PM	5.00	A.Taurke	711
66759	TTH	12:40PM-03:05PM	5.00	J.Krause	707
66760	TTH	01:30PM-03:55PM	5.00	L.Meyer	717
66761	MW	02:10PM-04:35PM	5.00	L.Simcik	718
66762	TTH	02:10PM-04:35PM	5.00	S.Politis	712
66763	MW	03:15PM-05:40PM	5.00	E.Chovick	709
66764	TTH	03:15PM-05:40PM	5.00	F.Maisch	709
66765	MW	06:00PM-08:25PM	5.00	G.Rodriguez	708
66766	MW	06:00PM-08:25PM	5.00	J.Malokas	Wat4420
66767	TTH	06:00PM-08:25PM	5.00	F.Maisch	709

MATH 152B Intermediate Algebra–Second Half

Presents the second half of Intermediate Algebra and, when taken after MATH 152A, satisfies Cabrillo's math graduation requirement for Associate of Arts and Associate of Science Degree. Prerequisite: MATH 152A.

Section	Days	Times	Units	Instructor	Room
66768	MTWTH	12:40PM-02:45PM	4.00	J.Cass	713

MATH 154 Elementary Algebra

Presents a systematic development of numbers, polynomials and polynomial fractions, along with applications to the solution of linear equations, graphing of and solutions for systems of linear equations, quadratic equations and an introduction to exponents and radicals. May not be taken pass/no pass. Prerequisite: MATH 254B or MATH 254CM or equivalent skills.

Section	Days	Times	Units	Instructor	Room
66773	Arr.	Arr.	5.00	V.Lundquist	OL

Section 66773 is an ONLINE course. Students will complete exams on campus on 3/2, 3/23, 4/27, 5/25, and 6/1. Required orientation Saturday 2/6 (before the start of semester), from 10:00AM-11:30AM in Room 711. Whether you are enrolled or on the waitlist, e-mail the instructor at velundqu@cabrillo.edu. For details, please see instructor's web page at www.cabrillo.edu/services/disted/ "Distance Courses."

66774	MTWTH	08:00AM-09:10AM	5.00	D.Viglienzoni	707
66775	MTWTH	08:00AM-09:10AM	5.00	A.Lobato	Wat4420
66776	TTH	08:30AM-10:55AM	5.00	L.Shipley	SV04
66777	MTWTH	09:30AM-10:40AM	5.00	M.Laddon	712
66778	MTWTH	11:10AM-12:20PM	5.00	V.Ramos	709
66779	MW	12:40PM-03:05PM	5.00	J.Krause	707
66780	MW	12:40PM-03:05PM	5.00	V.Ramos	708
66781	TTH	12:40PM-03:05PM	5.00	R.Stidham	709
66782	TTH	02:10PM-04:35PM	5.00	V.Lundquist	711
66783	MW	03:15PM-05:40PM	5.00	J.Smith	825
66784	TTH	03:15PM-05:40PM	5.00	A.Berman	713
66785	MW	06:00PM-08:25PM	5.00	J.Smith	716
66786	TTH	06:00PM-08:25PM	5.00	A.Berman	716
66787	TTH	06:30PM-08:55PM	5.00	W.Wallace	Wat4420

MATH 154B Elementary Algebra–Second Half

Presents the second half of Elementary Algebra and is intended only for students who have successfully completed MATH 154A. May not be taken pass/no pass. Prerequisite: MATH 154A.

Section	Days	Times	Units	Instructor	Room
66788	MTWTH	11:10AM-01:15PM	4.00	N.Fetterman	712
66789	TWTH	06:30PM-09:10PM	4.00	M.Buchanan	Wat4110

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
65994	Arr.	Arr.	0.50	E.Braunhut	1074

1 hr 20 min arranged per week.

MATH 158PF Algebra Review-Polynomial Fractions

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
65995	Arr.	Arr.	0.50	E.Braunhut	1074

1 hr 20 min arranged per 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.

Cabrillo College Schedule of Classes – Spring, 2009

MATH 158SI Using the Metric System 0/3

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
65996	Arr.	Arr.	0.50	E.Braunhut	1074

1 hr 20 min arranged per week.

MATH 158T Preparation for Tutoring Mathematics 0/3

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
65997	Arr.	Arr.	1.00	E.Braunhut	1074
65998	Arr.	Arr.	1.00	S.Tappero	714

3 hr 5 min arranged per week.

MATH 254A Essential Mathematics–First Half

Presents the first half of Essential Mathematics and along with MATH 254B is equivalent to MATH 254CM.

Section	Days	Times	Units	Instructor	Room
66790	MW	08:30AM-10:35AM	4.00	C.Dyer	717
66791	TTH	08:30AM-10:35AM	4.00	M.Caspers	717
66792	TTH	11:10AM-01:15PM	4.00	A.Taurke	717
66793	MW	12:40PM-02:45PM	4.00	M.Caspers	716
66794	MW	01:30PM-03:35PM	4.00	G.Rodriguez	717

MATH 254B Essential Mathematics–Second Half

Presents the second half of Essential Mathematics and is intended only for students who have successfully completed MATH 254A. Prerequisite: MATH 254A.

Section	Days	Times	Units	Instructor	Room
66795	MW	11:10AM-01:15PM	4.00	G.Rodriguez	717
66796	TTH	11:10AM-01:15PM	4.00	A.Lobato	Wat4420
66797	TTH	02:10PM-04:15PM	4.00	V.Ramos	716
66798	MW	06:30PM-08:35PM	4.00	R.Eckert	Wat4104

MATH 254CM Essential Mathematics–Computer Mediated 0/3

Presents topics in an accelerated format using computer software, assisted by the instructor, and covers whole numbers, fractions, decimals, percents, signed numbers, equations, statistics, proportions, and geometry.

Section	Days	Times	Units	Instructor	Room
66799	Arr.	Arr.	2.00	G.Rodriguez	OL

Section 66799 is an ONLINE course. Students will complete exams on campus on 3/9, 4/13, 5/18, and 6/1. 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."

66800	MTWTH	08:00AM-09:20AM	2.00	E.Braunhut	1097
66801	MTWTH	08:00AM-09:20AM	2.00	S.Ward	Wat4550
66802	MTWTH	09:30AM-10:50AM	2.00	L.Meyer	1097
66803	MTWTH	11:10AM-12:30PM	2.00	L.Meyer	1097
66804	MTWTH	12:40PM-02:00PM	2.00	STAFF	1097
66805	TTH	06:00PM-09:05PM	2.00	R.Eckert	1097

MATH 502 Supervised Tutoring 0/3

Provides supervised tutoring assistance in basic skills and transfer level mathematics courses, including mathematics applications found in science and other non-math courses.

Section	Days	Times	Units	Instructor	Room
66028	Arr.	Arr.	0.00	E.Braunhut	1074

5 hr 10 min arranged per week.

66029	Arr.	Arr.	0.00	E.Braunhut	1074
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5 hr 10 min arranged per week.

66030	Arr.	Arr.	0.00	E.Braunhut	1074
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5 hr 10 min arranged per week.

66031	Arr.	Arr.	0.00	STAFF	Wat4410
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5 hr 10 min arranged per week.

66032	Arr.	Arr.	0.00	S.Tappero	714
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5 hr 10 min arranged per week. For MESA students.

67055	Arr.	Arr.	0.00	E.Braunhut	1080A
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5 hr 10 min arranged per week.