

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 score, prerequisite course grade, or transcripts verifying their math preparation. It is strongly recommended that students re-assess if their course preparation (either prerequisite course work or assessment score) is 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 or transfer-level EAP or ELM test results 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 or EAP or ELM test results 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 254A, 254B or 254CM.

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 WatA210, 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.

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 with limits: Math 2 and 4 combined - maximum credit: 1 course

Section	Days	Times	Units	Instructor	Room
75137	TTH	08:45AM-10:50AM	4.00	L.Shipley	708
75138	MW	12:40PM-02:45PM	4.00	M.Laddon	712
75139	TTH	12:40PM-02:45PM	4.00	M.Laddon	711
75140	MW	03:15PM-05:20PM	4.00	J.Smith	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
75156	TTH	11:10AM-12:30PM	3.00	L.Meyer	717
75157	TTH	12:40PM-02:00PM	3.00	L.Shipley	712
75158	W	06:00PM-09:05PM	3.00	A.Furutani	707

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 with limits: Math 2 and 4 combined - maximum credit: 1 course

Section	Days	Times	Units	Instructor	Room
75159	MW	08:00AM-10:25AM	5.00	A.Taurke	716
75160	MW	11:10AM-01:35PM	5.00	D.Morgali	709
75161	TTH	11:10AM-01:35PM	5.00	D.Morgali	709
75710	TTH	11:10AM-01:35PM	5.00	D.Morgali	709
To register for this section, students must be a participant in the PREP program and attend workshops from Jan 13-27, 2012. For more information, visit cabrillosteep.org or e-mail sutapper@cabrillo.edu .					
75162	TTH	12:40PM-03:05PM	5.00	R.Stidham	708
75163	TTH	06:00PM-08:25PM	5.00	A.Berman	707

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

Cabrillo College *Schedule of Classes* – Spring, 2012

MATH 5A Analytic Geometry and Calculus I

Presents 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 4 or MATH 2 and MATH 3, or equivalent skills.

Transfer Credit: CSU; UC with limits: MATH 5A & 18 combined-maximum credit-1 course. C-ID MATH 230.

Section	Days	Times	Units	Instructor	Room
75170	MWF	07:50AM-09:20AM	5.00	M.Eastman	715
75171	TTH	08:00AM-10:25AM	5.00	A.Miller	709
75172	MTWTH	11:10AM-12:20PM	5.00	M.Laddon	708
75173	MW	11:10AM-01:35PM	5.00	A.Taurke	715
75174	MW	12:40PM-03:05PM	5.00	L.Simcik	708

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

MATH 5B Analytic Geometry and Calculus II

Presents integral calculus of algebraic and transcendental functions of one variable with applications, techniques of integration, sequences and series. May not be taken pass/no pass. Prerequisite: MATH 5A or equivalent skills.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
75175	MW	08:00AM-10:25AM	5.00	V.Ramos	708
75176	TTH	08:00AM-10:25AM	5.00	A.Taurke	828
75177	MW	06:00PM-08:25PM	5.00	E.Braunhut	708

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

MATH 5C Analytic Geometry and Calculus III

Presents vectors and vector functions, multivariable calculus of algebraic and transcendental functions, line and surface integrals, vector field theory. May not be taken pass/no pass. Prerequisite: MATH 5B or equivalent skills.

Transfer Credit: CSU; UC. C-ID MATH 230.

Section	Days	Times	Units	Instructor	Room
75178	MW	08:00AM-10:25AM	5.00	B.Krein	709
75179	MW	02:30PM-04:55PM	5.00	M.DeSmet	711

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. Students enrolled in the Honors Transfer Program may count this course towards the "Honors Scholar" designation. 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
75180	TTH	07:50AM-09:10AM	3.00	D.Viglienzoni	HORT5005

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. Students enrolled in the Honors Transfer Program may count this course towards the "Honors Scholar" designation. May not be taken pass/no pass. Prerequisite: MATH 5C or equivalent skills.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
75181	MW	08:00AM-09:20AM	3.00	D.Viglienzoni	707

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
75068	TTH	11:10AM-12:30PM	3.00	A.Berman	1301
75069	MW	12:40PM-02:00PM	3.00	G.Rodriguez	711

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 12/12H combined with BUS 9-maximum credit- 1 course

Section	Days	Times	Units	Instructor	Room
75071	Arr.	Arr.	5.00	E.Chovick	OL

Section 75071 is an ONLINE course. Required in-person orientation Saturday 2/4 (before the start of semester) from 2:00PM-4:00PM in Room 825. Students will complete exams on campus on 3/3, 3/31, 5/5, and 5/26. Whether you are enrolled or on the waitlist, e-mail the instructor at elchovic@cabrillo.edu. For details, please see instructor's web page at go.cabrillo.edu/online.

75072	MTWTH	08:00AM-09:10AM	5.00	J.Krause	711
75073	MTWTH	09:30AM-10:40AM	5.00	V.Lundquist	711
75074	MTWTH	11:10AM-12:20PM	5.00	J.Krause	711
75075	MTWTH	11:10AM-12:20PM	5.00	B.Krein	713
75076	MW	12:40PM-03:05PM	5.00	V.Ramos	713
75077	TTH	12:40PM-03:05PM	5.00	B.Krein	713
75078	TTH	12:40PM-03:05PM	5.00	J.Cristobal	825
75079	MW	02:10PM-04:35PM	5.00	J.Pickering	825
75080	TTH	02:30PM-04:55PM	5.00	J.Burns	828
75717	MW	03:15PM-05:40PM	5.00	J.Parrish	713
75081	TTH	06:00PM-08:25PM	5.00	E.Venable	713

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

MATH 13 Finite Mathematics

Presents topics in 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
75083	TTH	12:40PM-02:00PM	3.00	H.Payne	716
75084	T	06:00PM-09:05PM	3.00	J.Parrish	709

Cabrillo College Schedule of Classes – Spring, 2012

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, even years. 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
75784	T	03:00PM-05:05PM	3.00	M.Laddon	711
&	TH	03:00PM-04:50PM		M.Laddon	711

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
75133	TTH	08:00AM-09:20AM	3.00	B.Krein	715
75134	W	06:00PM-09:05PM	3.00	G.Aleu	713

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
75737	TTH	03:30PM-04:50PM	4.00	S.Nerton	825
&	Arr.	Arr.		S.Nerton	OL

Section 75737 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. Students will be required to show that they meet the course prerequisites. For details, see instructor's web page at go.cabrillo.edu/online.

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
75085	Arr.	Arr.	5.00	V.Lundquist	OL

Section 75085 is an ONLINE course. Students will complete exams on campus on 3/6, 3/27, 4/24, 5/15, and 5/29. Required orientation Sunday 2/5 (before the start of semester), from 3:00PM-4:30PM in Room 711. Make sure Admissions and Records has your current e-mail address. For details, please see instructor's web page at go.cabrillo.edu/online.

75086	MTWTH	08:00AM-09:10AM	5.00	V.Lundquist	718
75087	MTWTH	08:00AM-09:10AM	5.00	R.Stidham	1301
75088	TTH	08:30AM-10:55AM	5.00	M.Eastman	WatA240
75089	MTWTH	09:30AM-10:40AM	5.00	L.Peacemaker	718
75713	MTWTH	09:30AM-10:40AM	5.00	L.Peacemaker	718
For students enrolled in the STARS Program. For more information, call (831) 477-3290 or see www.cabrillostars.org .					
75090	MTWTH	09:30AM-10:40AM	5.00	R.Stidham	1301
75091	MTWTH	11:10AM-12:20PM	5.00	D.Viglienzoni	707
75092	MTWTH	11:10AM-12:20PM	5.00	J.Perez	WatA220

75093	MW	12:40PM-03:05PM	5.00	J.Krause	828
75094	TTH	12:40PM-03:05PM	5.00	J.Krause	707
75095	MW	01:30PM-03:55PM	5.00	R.Reed	718
Purchase of access code and access to Internet may be required to complete homework assignments for Section 75095.					
75096	MW	02:10PM-04:35PM	5.00	D.Morgali	709
75097	TTH	02:10PM-04:35PM	5.00	S.Politis	712
75098	MW	03:15PM-05:40PM	5.00	L.Simcik	708
75099	TTH	03:15PM-05:40PM	5.00	R.Reed	708
Purchase of access code and access to Internet may be required to complete homework assignments for Section 75099.					
75100	TTH	03:15PM-05:40PM	5.00	L.Simcik	713
75101	MW	06:00PM-08:25PM	5.00	J.Pickering	709
Purchase of access code and access to Internet may be required to complete homework assignments for Section 75101.					
75102	MW	06:00PM-08:25PM	5.00	L.Peacemaker	SV04
75103	MW	06:00PM-08:25PM	5.00	J.Malokas	WatA220
75104	TTH	06:00PM-08:25PM	5.00	J.Kenison	708

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
75107	MTWTH	10:15AM-12:20PM	4.00	J.Cass	712
75108	MTWTH	11:10AM-01:15PM	4.00	D.Reynolds	718

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 MATH 254SI or equivalent skills.

Section	Days	Times	Units	Instructor	Room
75109	Arr.	Arr.	5.00	D.Reynolds	OL

Section 75109 is an ONLINE course. Students will complete exams on campus on 3/1, 3/22, 4/26, 5/17, and 6/2. Required orientation Saturday 2/4 (before the start of semester), from 1:00PM-2:30PM in Room LRC1097. Make sure Admissions and Records has your current e-mail address. For details, please see instructor's web page at go.cabrillo.edu/online.

75110	MTWTH	08:00AM-09:10AM	5.00	L.Meyer	717
75111	MTWTH	09:30AM-10:40AM	5.00	D.Viglienzoni	707
75112	MTWTH	09:30AM-10:40AM	5.00	A.Lobato	717
75714	MTWTH	09:30AM-10:40AM	5.00	A.Lobato	717
For students enrolled in the STARS program. For more information, call (831) 477-3290 or see www.cabrillostars.org .					
75113	MTWTH	09:30AM-10:40AM	5.00	J.Perez	WatA220
75114	MTWTH	11:10AM-12:20PM	5.00	G.Aleu	716
75115	MW	12:40PM-03:05PM	5.00	R.Stidham	707
75116	TTH	01:30PM-03:55PM	5.00	M.Miller	718
75117	TTH	02:10PM-04:35PM	5.00	V.Ramos	709
75118	MW	03:15PM-05:40PM	5.00	G.Rodriguez	707
75119	TTH	03:15PM-05:40PM	5.00	M.DeSmet	717
75120	MW	06:00PM-08:25PM	5.00	J.Smith	712
75121	TTH	06:00PM-08:25PM	5.00	M.DeSmet	717
75122	MW	06:00PM-08:25PM	5.00	M.Miller	SV02
75123	TTH	06:30PM-08:55PM	5.00	M.Van Der Poel	WatA240

 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, 2012

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
75126	MTWTH	08:55AM-11:00AM	4.00	P.Reuschling	713
75127	TWTH	06:30PM-09:10PM	4.00	M.Buchanan	WatA380

MATH 158BF Algebra Review- Basic Factoring **O/E**

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
75128	Arr.	Arr.	0.50	E.Braunhut	LRC1074

1 hr 20 min arranged per week.

MATH 158PF Algebra Review-Polynomial Fractions **O/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
75129	Arr.	Arr.	0.50	E.Braunhut	LRC1074

1 hr 20 min arranged per week.

MATH 158SI Using the Metric System **O/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
75130	Arr.	Arr.	0.50	E.Braunhut	LRC1074

1 hr 20 min arranged per week.

MATH 158T Preparation for Tutoring Mathematics **O/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 with a minimum grade of B or better. Repeatability: May be taken 2 times.

Section	Days	Times	Units	Instructor	Room
75131	Arr.	Arr.	1.00	E.Braunhut	LRC1074
3 hr 5 min arranged per week.					
75132	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
75141	MW	08:00AM-10:05AM	4.00	D.Reynolds	712
75142	TTH	08:45AM-10:50AM	4.00	H.Payne	716
75143	MW	11:10AM-01:15PM	4.00	J.Cristobal	WatA240
75144	MW	12:40PM-02:45PM	4.00	S.Decelle	716
75145	TTH	12:40PM-02:45PM	4.00	A.Lobato	717
75146	MW	01:25PM-03:30PM	4.00	A.Lobato	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
75147	TTH	08:00AM-10:05AM	4.00	D.Reynolds	712
75148	MW	11:10AM-01:15PM	4.00	A.Lobato	717
75715	MW	11:10AM-01:15PM	4.00	A.Lobato	717

For students enrolled in the STARS Program. For more information, call (831) 477-3290 or see www.cabrillostars.org.

75149	TTH	11:10AM-01:15PM	4.00	M.Eastman	WatA240
75150	TTH	06:30PM-08:35PM	4.00	G.Rodriguez	WatA220

MATH 254CM Essential Mathematics-Computer Mediated

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
75151	Arr.	Arr.	2.00	G.Rodriguez	OL

Section 75151 is an ONLINE course. Students will complete exams on campus on 2/27, 3/19, 4/16, 5/7 and 5/30. REQUIRED online orientation. Enrolled and waitlisted students must fill out the Student Information Form on the instructor's web page by the first day of the semester. For details, please see instructor's web page at go.cabrillo.edu/online.

75152	MTWTH	09:30AM-10:50AM	2.00	L.Meyer	LRC1097
75153	MW	11:10AM-02:15PM	2.00	L.Meyer	LRC1097
75154	TTH	12:40PM-03:45PM	2.00	J.Cass	LRC1097
75155	TWTH	05:30PM-07:35PM	2.00	STAFF	WatA350

MATH 502 Supervised Tutoring **O/E**

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
75164	Arr.	Arr.	0.00	E.Braunhut	LRC1074
5 hr 10 min arranged per week.					
75165	Arr.	Arr.	0.00	E.Braunhut	LRC1074
5 hr 10 min arranged per week.					
75166	Arr.	Arr.	0.00	T.Martin	WatA210
5 hr 10 min arranged per week.					
75167	Arr.	Arr.	0.00	S.Tappero	714
5 hr 10 min arranged per week.					
75168	Arr.	Arr.	0.00	E.Braunhut	LRC1080A
5 hr 10 min arranged per week.					