



## MATH V21B • COURSE INFORMATION

**The Course.** 5 units (5 hrs lecture weekly). This is a second course in calculus; it assumes a background in the basics of differentiation and integration. It covers applications and techniques of integration; parametric and polar representations of plane curves; conic sections; and sequences and series. By the end of the course, the successful student will be able to evaluate definite and indefinite integrals; solve applications involving area, volume, work, arc length, etc.; evaluate improper integrals; graph, differentiate, and integrate functions in polar and parametric form; apply convergence tests to sequences and series; and represent functions as power series. The course includes instruction in proper notation, word problems, calculator use, and emphasizes the importance of acquiring good study skills.

**Class Meetings.** Lecture: Tuesday and Thursday 10:00 a.m.–12:15 p.m. in room SCI-353

Please turn off (or set to "vibrate" mode) all mobile phones and pagers, so as not to interrupt the class.

**Homework Club.** Please visit during any scheduled homework club hours (note locations below), or make an appointment.

- Tutorial Center (first floor of LRC across the hall from the BEACH); Monday, Tuesday, and Wednesday, 5:30–6:30 p.m.

These times may change, especially early in the term. Schedule updates are posted on the Web at <http://academic.venturacollege.edu/mbowen/courses/2018haru/classked.pdf>. Contact the instructor, Michael Bowen, by telephone (805-289-6256) or by e-mail at [mbowen@vcccd.edu](mailto:mbowen@vcccd.edu).

**Prerequisites.** MATH V21A or equivalent. Students should know how to evaluate limits, evaluate derivatives and integrals of algebraic and elementary transcendental functions and solve related application problems, and solve problems using the Mean Value Theorem and the Fundamental Theorem of Calculus. Good reading and writing skills are helpful; homework, quizzes, and the final examination may include word problems and/or essay questions.

### Course Materials.

- This text is required: J. Stewart, *Calculus: Early Transcendentals*, Eighth Edition (ISBN 978-1285741550 or 978-1305270336 or 978-1305272354 or 978-1305782198). Math V21B lectures largely follow the material in chapters 6, 7, 8, 10, and 11 of this text, which we shall cover in whole or in part as indicated in the homework assignments.
- Students should purchase or borrow a good calculator. The calculator must be capable of evaluating powers, roots, exponentials, logarithms, and trig functions. If you already have a calculator but are not sure whether it has the necessary capabilities, please bring it and ask the instructor. *The Department of Mathematics recommends that students in this course acquire a graphing calculator, such as the TI-82, TI-83, or TI-84; mobile-phone calculators are not permitted during exams.*
- The Web start page for this course is <http://academic.venturacollege.edu/mbowen/courses/2018haru/m21b.shtml>.
- Student Learning Outcomes (SLOs) and Core Competencies for this course are available on the VC math department's web site. The URL for SLOs is <http://www.venturacollege.edu/sites/default/files/files/college-information/student-learning-outcomes/course-student-learning-outcomes/math.pdf>. The URL for competencies is [http://www.venturacollege.edu/assets/pdf/core\\_competencies/corecomps\\_math.pdf](http://www.venturacollege.edu/assets/pdf/core_competencies/corecomps_math.pdf).

**Grading and Drop Policies.** Please see the accompanying **COURSE REQUIREMENTS AND GRADING** document, which is expressly incorporated and made a part of this **COURSE INFORMATION** document by reference. It is the student's responsibility to remember drop deadlines and regulations. The various drop deadlines for this semester are listed under **IMPORTANT DATES** below.

### IMPORTANT DATES

Student holidays	...	15 January; 16–19 February; 26–30 March; and 26–27 April 2018
Last day to add a class	...	Friday 19 January 2018
Last day for full refunds	...	Friday 19 January 2018
<b>Drop deadline (no "W")</b>	...	<b>Friday 26 January 2018</b>
Credit/No Credit request deadline	...	Friday 9 February 2018
<b>Drop deadline (no "F")</b>	...	<b>Friday 20 April 2018</b>
<b>Final Examination</b>	...	<b>Room SCI-353, 10:15 a.m.–12:15 p.m., Tuesday 15 May 2018</b>

All **COURSE INFORMATION** is subject to change without notice. Please refer questions directly to your instructor.