

# Philip B. Yasskin -- MATH 172 -- Spring 2018

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## Sections 501-502 Syllabus & Schedule

- Instructor: Philip Yasskin  
Email: [yasskin@math.tamu.edu](mailto:yasskin@math.tamu.edu) -- Include your phone number.  
Website: <http://www.math.tamu.edu/~yasskin>  
Office: BLOC 620 I  
Office Hours: TW 2PM-3PM or by appointment in BLOC 620 I  
If you email for an appointment, be sure to include a phone number!
- 501 TA: Cameron Beiseigel, [beiseigel@tamu.edu](mailto:beiseigel@tamu.edu), BLOC 509, TR 11-12  
502 TA: Zachary Menchaca, [menchacazath@tamu.edu](mailto:menchacazath@tamu.edu), BLOC 242, W 1-2
- Section                      Lecture    Recitation  
501            TR 9:35am-10:50am BLOC 161            W 8:00 - 8:50am BLOC 121  
502            TR 11:10am-12:25pm BLOC 161            W 9:10-10:00am BLOC 148
- Class Webpage: <http://www.math.tamu.edu/~yasskin/currclas/172.18a/>  
Department Webpage: <http://www.math.tamu.edu/courses/math172/>
- Text: Stewart, *Calculus: Early Transcendentals*, 8th edition, Cengage Learning  
We cover most of Chapters 6 through 11.
- Instructor's Lecture Notes: *MYMathApps Calculus 2* available at:  
<https://www.math.tamu.edu/maple/maplets/MYMACalc/MYMACalc2/MContents.html>
- Extra Tutorial Practice: *Maplets for Calculus 1.4* available at:  
<https://www.math.tamu.edu/maple/maplets/1.4/MapletsForCalculus.html>  
You must be on a Computer which has Maple and can run Java applets, e.g. the Univ Open Access Labs in person or remotely via <https://voal.tamu.edu/>.
- Course Prerequisites: Math 147, 151, 171, or equivalent with a grade of C or better.
- Course Description: 4.0 credits. Techniques of integration, applications of integrals, improper integrals, sequences, infinite series, vector algebra and solid analytic geometry. Math 172 is the second of a three semester beginning calculus sequence, which is taken, for the most part, by math, chemistry, and physics majors. Designed to be more demanding than Math 152. No credit will be given for more than one of Math 148, 152, 172.
- Learning Objectives: After taking this course, students should be able to compute integrals using the methods of substitution, parts, trig substitutions and partial fractions. They should be able to evaluate improper integrals and approximate integrals numerically. They should be able to use integrals to compute: area; average value; volume by slicing and revolution; mass and center of mass of a bar; arclength and surface area of revolution of parametric curves; slope of, area inside, and arc length of polar curves; and work. Students should understand sequences and infinite series including how to use and explain convergence tests and error estimates.
- e-Homework: WebAssign Homework will be due on Wednesday nights at 11:55pm unless otherwise announced. See: <http://www.math.tamu.edu/courses/eHomework/>.
- Quizzes may be given in lecture or lab and may not be announced or they may be Take-Home-Quizzes due on announced dates. Quizzes will count like WebAssign homeworks.

- LateTake-Home Quizzes will be accepted only if there is a University excused absence. There will be no make-ups for In-Class Quizzes or late e-Homework. Rather, the lowest 5 e-Homework or Quiz grades will be dropped. The remaining grades will be averaged and then rescaled to 100 points.
- Suggested Stewart Homework (the same as Math 152):  
<http://www.math.tamu.edu/courses/math152/currenthw.html>.  
These are not graded.
- You must have your ID with you at all exams. CALCULATORS and PHONES are NOT allowed. Make-Ups for Major Exams will be given only in case of an absence authorized under University Regulations. You will need a note from your doctor or your academic dean's office. If you know in advance that you will miss an exam, please contact me in advance. If you email me, be sure to include your phone number.
- ATTENDANCE is REQUIRED. Attendance will be taken. If you sign the roll sheet, you are expected to remain in the classroom for the entire 75 minutes. More than 2 absences may have a detrimental effect on your grade especially in borderline cases.
- © COPYRIGHT Philip B. Yasskin 2018. All material handed out or written on the board or spoken in class or posted on a computer is copyrighted by the instructor. This includes but is not limited to syllabi, homework, quizzes, labs, web-pages, additional problem sets, class notes, in-class materials and exams. Because these are copyrighted, neither you nor anyone else has the right to copy them unless I expressly grant permission.
- ACADEMIC INTEGRITY STATEMENT: "An Aggie does not lie, cheat, or steal or tolerate those who do." For more information on university policies regarding scholastic dishonesty, see Honor Council Rules and Procedures at <http://aggiehonor.tamu.edu/>.
- ADA POLICY STATEMENT: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, currently located in the Disability Services building at the Student Services at White Creek complex on West Campus or call 979-845-1637. For additional information see <http://disability.tamu.edu>.

## Grading

Assessment	Covers Stewart	Covers MYMACalc	Points	Dates
eHW & Quiz	All	All	100	Every Wednesday at 11:55pm
Exam 1	§§6.1,2,3,5; 7.1,2,3; 8.1,2,3; 10.1,2	Chs. 3, 5, 6, 9, 10, 11, 12	100	Thursday Feb 22 7:30-9:30 PM BLOC 102
Exam 2	§§6.4; 7.4,7,8, 9; 10.3,4	Chs. 4, 7, 8, 13, 14, 15, 16	100	Thursday Mar 29 7:30-9:30 PM BLOC 102
Exam 3	§§Ch. 11	Chs. 17, 18, 19, 20, 21, 22, 23	100	Thursday Apr 19 7:30-9:30 PM BLOC 102
Final	All	All	150	Thursday, May 3, 2018 501: 12:30-2:30pm BLOC 161 502: 3:00-5:00pm BLOC 161
<b>Total:</b>			<b>550</b>	

I may curve any grade or the total and then compute the course grade from the following list:

**550 points ≥ A ≥ 495 points > B ≥ 440 points > C ≥ 385 points > D ≥ 330 points > F ≥ 0 points**

# Schedule

Week Starting	Covers Stewart	Covers MYMACalc	Topics
1 1/17	Ch. 5	Chs: 1,2	Riemann Sums, FTC, Substitution
2 1/22	§§6.1, 6.5, 7.1	Chs: 9,3	Area, Average Value, Parts
3 1/29	§§~8.3, 7.2	Chs: 10,5	Mass, C of M, Trig Int
4 2/5	§§8.1, 8.2, 10.1, 10.2, 7.3	Chs: 11,6	Arc Length, Surface Area, Trig Subst
5 2/12	§§6.2, 6.3, 7.4	Chs: 12,8	Volume, Partial Fractions
6 2/19	Catch Up	Catch Up	Review, Exam 1
7 2/26	§§6.4, 7.8	Chs: 13,7	Work, Improper Int
8 3/5	§§10.3, 10.4, 7.7	Chs: 14,4	Polar, Numerical Int
	Spring Break		
9 3/19	Ch. 9	Chs: 15,16	Differential Equations
10 3/26	Catch Up	Catch Up	Review, Exam 2
10 3/26	§§11.1, 11.2	Chs: 17,18	Sequences, Series
11 4/2	§§11.3-7	Chs: 19,20	Convergence of Series
12 4/9	§§11.8-10	Chs: 21,22	Power and Taylor Series
13 4/16	§§11.11	Chs: 23	Applications of Taylor Series
14 4/23	Catch Up	Catch Up	Review, Exam 3
15 4/30	No Class	Redefined Day	

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Last Updated: Feb 12, 2018, PB  
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