

**MATH 1A**  
**Spring 2017**  
**Calculus 1**  
**M,W 9-10 AM, T,H 9 – 10:30 AM sec. 5083**

**Sara Jones**  
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**Office: Shuhaw 1714, 527- 4296**  
**1723 Shuhaw**

**Office Hours: Mon. and Wed. 8 -9 AM, Tues. and Thurs. 10:30-11:30 AM**  
**and by appointment**

**E-mail Hours: Tuesday and Wednesday 8:30-9 PM**

**Required Materials:**

*Calculus: Early Transcendental, Second Edition*, Briggs, Call NO. QA303.2.B75

Access to MyMathLab: <http://www.coursecompass.com>, course ID: jones50531

A Graphing Calculator: TI-83, TI-84, TI-89, TI-inspire

3 ring binder to keep text, class work and homework

**Santa Rosa Junior College Course Outline and Student Learning Outcomes for**

**[https://portal.santarosa.edu/SRWeb/SR\\_CourseOutlines.aspx?mode=1&CVID=22198&Semester=20107](https://portal.santarosa.edu/SRWeb/SR_CourseOutlines.aspx?mode=1&CVID=22198&Semester=20107)**

**Homework** will be collected at the beginning of each class. Each assignment will be worth 20 points: 10 will be based on the Refrigerator Homework(RH) problems, and 10 points will be based on your Computer Homework(CH). Both should be done neatly with a two column format, answers circled, and space left for comments between problems. For both you must state the problem and show all work. Refrigerator homework on Top should be so complete, beautiful, and clear enough that it is suitable for display on your refrigerator. For Computer homework write the percentage correct on the top, and staple it to the back of your Refrigerator homework. In cases of illness or emergency, late homework will be accepted but will be worth 7/10 for each part. The lowest two homework grades will be dropped.

**Quizzes** will be given regularly. **Unannounced quizzes may be given at the beginning or end of any class.** No makeup quizzes will be given. You should ask for copies of missed quizzes to be completed at home and receive half credit. Any quiz on which you receive less than half credit may be corrected within a week to get up to half credit. The sum of the quiz grades will be worth a test grade.

**In Class Test** dates are listed below, and cannot be made up. The final is cumulative. Grade on final will replace a missed test grade. Test points have more weight than homework points.

**IF YOU WANT TO PASS, COME TO CLASS AND DO THE HOMEWORK!!**

**GRADING**

Tests (3 exams at 10% each): ..... 30%

Midterm: ..... 15%

Final Exam ..... 30%

Daily written homework ..... 15%

Quizzes ..... 10%

Course grades use the following scale:

**A: 90-100**

**B: 80-89**

**C: 70-79**

**D: 60-69**

**F: 0-59**

Example: Mr. Bill has scores of 70%, 75%, and 90% on his three tests, his midterm was an 80% and his final exam score is 70%. His homework average is  $567/600 = 94.5\%$  and his quiz average is 100%. His course grade is then  $0.10*(70+75+90) + .15*80 + 0.30*70 + 0.15*94.5 + 0.10*100 = 80.7$ , or a B in the class.

**Dates to remember:**

January 23 .....PDA Day No class

February 22, .....Test 1

February 16, .....PDA Day No class

February 20, .....Presidents Day No class

March 20-25, .....Spring Break

April 5, .....Test 2

May 3 .....Test 3

May 24, .....Final

**Assistance** can be found at the Mathematics Computer Lab, the MESA center, and the Tutorial Center in the Library, in my office, or via e-mail.

- The Math Department office has a list of private tutors. This list can be found on the Math Department web site at <https://mathematics.santarosa.edu/tutor-list>
- If you need disability related accommodations for this class, such as a note taker, test taking services, special furniture, use of service animal, etc., please provide the Authorization for Academic Accommodations (AAA letter) from the Disability Resources Department (DRD) to me as soon as possible. You may also speak with me privately during office hours about your accommodations. If you have not received authorization from DRD, it is recommended that you contact them directly. DRD is located in Bertolini Student Center, Third Floor, Room 4844 on the Santa Rosa campus, and the Petaluma Village on the Petaluma Campus.

#### **Homework Hints**

- Check odd answers in the back of your book. If you are assigned an even problem and don't know what the answer should include, look at the previous odd answer for the correct form.
- Ask for help before the class in which the assignment is due. I am happy to help.
- Write in complete sentences and equations. Learn the correct notation and symbols as soon as possible.
- Collaborate with a classmate to check answers and work on the problems.
- Fold paper to form two columns. Circle or box Answers. Leave blank space between problem for corrections and comments.

#### **Classroom Conduct**

- Please turn off and put away all phones, pagers, music, etc. upon entering class. If I **see or hear** your phone or any other electronic device during class besides your calculator, you will be asked to leave class for the day. You will not be able to make up any work missed.
- If you are caught cheating, you will receive a zero for that test/assignment. You will also be suspended from class for two class meetings and you will not be allowed to make up any missed work. If you are caught cheating there will also be a letter written to the Vice President of Student Services to report the incident. The Vice President may then take additional disciplinary action ranging from reprimand to expulsion.
- The SRJC Rights and Responsibilities for students can be found at the following site:  
<https://studentlife.santarosa.edu/rights-and-responsibilities>

#### **Student Success**

- Come to class ready to learn.
- Make sure you eat, sleep and exercise.
- Read the material that will be covered before and after class.
- Always complete homework on time.
- Turn in all homework and quizzes.
- If you miss class, contact me via e-mail immediately to schedule and make up any missed work.
- Do a little homework each day.
- Work for this class will take between 4 and 6 hours outside of class each week. Be sure to schedule time to complete this work at the beginning of the semester.
- Enlist support from employers and loved ones right now.
- Get to know and work with classmates outside of class time.
- Keep a binder containing all classwork and record grades on Homework Assignment Sheet
- Use pencil ONLY and erase your mistakes.
- Health issues (physical and mental) can interfere with your academic success. Student Health Services is here to support you. Details are at [shs.santarosa.edu](https://shs.santarosa.edu).

#### **Emergency Evacuation Plan**

In the event of an emergency during class that requires evacuation of the building, please leave the class immediately and calmly. Our class will meet on the lawn in front of Shuhaw to make sure everyone got out of the building safely and to receive further instructions. If you are a student with a disability who may need assistance in an evacuation, please see me as soon as possible to discuss an evacuation plan.

Enroll in Math 71 on Tuesday 3:30 – 5:30 PM Room 1733 Shuhaw

5083	Calculus 1 A	Jones	Spring 2017
Monday	Tuesday	Wednesday	Thursday
<b>16-Jan</b>	<b>17-Jan</b>	<b>18-Jan</b>	<b>19-Jan</b>
Holiday	Introduction	2.1 The Idea of Limits	2.2 Definition of Limits
<b>23-Jan</b>	<b>24-Jan</b>	<b>25-Jan</b>	<b>26-Jan</b>
2.3 Techniques for Computing Limits	2.4 Infinite Limits	2.5 Infinite Limits	2.6 Continuity
<b>30-Jan</b>	<b>31-Jan</b>	<b>1-Feb</b>	<b>2-Feb</b>
2.7 Precise Definition of Limit	3.1 Introducing the Derivative	3.2 Working with Derivatives	3.3 Rules of Differentiation
<b>6-Feb</b>	<b>7-Feb</b>	<b>8-Feb</b>	<b>9-Feb</b>
3.4 Product and Quotient Rules	3.5 Derivatives of Trig, Functions.	3.6 Derivative as Rate of change	
<b>13-Feb</b>	<b>14-Feb</b>	<b>15-Feb</b>	<b>16-Feb</b>
3.7 The Chain Rule	Review	Test 1	Holiday
<b>20-Feb</b>	<b>21-Feb</b>	<b>22-Feb</b>	<b>23-Feb</b>
Holiday	3.8 Implicit Differentiation	3.9 Derivatives of Logarithmic Functions	3.9 Derivatives of Exponential Functions
<b>27-Feb</b>	<b>28-Feb</b>	<b>1-Mar</b>	<b>2-Mar</b>
3.10 Derivatives of Inverse Trig, Functions.	3.11 Related Rates	4.1 Maxima and Minima	4.2 What does the Derivative Tell Us
<b>6-Mar</b>	<b>7-Mar</b>	<b>8-Mar</b>	<b>9-Mar</b>
4.3 Graphing Functions	4.4 Optimization Problems	4.4b Optimization Problems	4.5 Linear Approximation and Differentials
<b>13-Mar</b>	<b>14-Mar</b>	<b>15-Mar</b>	<b>16-Mar</b>
4.6 Rolle's and Mean Value Theorems	4.7 Indeterminate Forms and l'Hospital's	Review	Test 2
<b>20-Mar</b>	<b>21-Mar</b>	<b>22-Mar</b>	<b>23-Mar</b>
Spring Break			
<b>27-Mar</b>	<b>28-Mar</b>	<b>29-Mar</b>	<b>30-Mar</b>
4.7 Indeterminate Forms and l'Hospital's	4.8 Newton's Method	4.9a Antiderivatives	4.9b Antiderivatives
<b>3-Apr</b>	<b>4-Apr</b>	<b>5-Apr</b>	<b>6-Apr</b>
5.1 Areas under Curves	5.2 The Definite Integral	5.3a The Fundamental Theorem of Calculus	5.3b The Fundamental Theorem of Calculus
<b>10-Apr</b>	<b>11-Apr</b>	<b>12-Apr</b>	<b>13-Apr</b>
5.4 Working with Integrals	5.5 Substitution Rule	6.1 Velocity and Net Change	
<b>17-Apr</b>	<b>18-Apr</b>	<b>19-Apr</b>	<b>20-Apr</b>
6.2 Area between Curves	Midterm Review	Midterm Review	Midterm
<b>24-Apr</b>	<b>25-Apr</b>	<b>26-Apr</b>	<b>27-Apr</b>
6.3 Volumes of Revolution: Disks and Washers	6.4 Volumes of Revolution: Cylindrical Shells	6.5 Length of Curves	6.6 Surface Area
<b>1-May</b>	<b>2-May</b>	<b>3-May</b>	<b>4-May</b>
6.7 Physical Applications	6.8 Logarithmic and Exponential Functions	6.9 Exponential Models	6.10 Hyperbolic Functions
<b>8-May</b>	<b>9-May</b>	<b>10-May</b>	<b>11-May</b>
7.7 Approximate Integration	D1.1 Differential Equations	Review	Test 3
<b>15-May</b>	<b>16-May</b>	<b>17-May</b>	<b>18-May</b>
D1.2 Direction Fields	D1.3 Separable Differential Equations	Review	Review
<b>22-May</b>	<b>23-May</b>	<b>24-May</b>	<b>25-May</b>
			Final 7- 10 AM

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Week	Tuesday	Thurs.	Thursday 1723 Shuhaw
17-Jan 1		19-Jan	2.1 # 16,20
24-Jan 2	2.2 # 22,33,44,50,69 2.3 # 46,51,57,70,78	26-Jan	2.4 # 12,24,38 2.5 # 40,58,32,33,74,78
31-Jan 3	2.6 # 12,18,34,74,84 2.7 # 12,17	2-Feb	3.1 # 26,40,56,62 3.2 # 9,12,16,26
7-Feb 4	3.3 # 40,70 3.4 # 22,60,64,82	9-Feb	3.5 # 10,14,38,44,54,63 3.6 # 9,18,34,53
14-Feb 5	3.7 # Test 1 on Wed. Feb 15	16-Feb	Holiday
21-Feb 6	Nothing	23-Feb	3.8 # 30,52,77 3.9 # 26,44,64,78,90
28-Feb 7	3.10 # 26,36,48,67,75 3.11 # 14,24,29,50,55,34,44,52,60,77	2-Mar	4.1 # 34,44,52,60,77 4.2 # 46,78,90,95
7-Mar	4.3 # 24,48,52,71 4.4 # 14,17,22,44,54	9-Mar	4.5 # 20,30,55
14-Mar 9	4.6 # 22,30,34	16-Mar	Test 2
21-Mar 10,	Spring Break	23-Mar	Spring Break
28-Mar 11,	4.7 # 29,36,42,60,81,92,96	30-Mar	4.8 # 10,16,30 4.9 # 28,40,54,72,86
4-Apr 12,	5.1 # 10,28,42,44,63,66 5.2 # 28,36,40,42	6-Apr	5.3 # 12,56,75,90
11-Apr 13,	5.4 # 12,25,52 5.5 # 20,46,50,56	13-Apr	6.1 # 8,12,18,30,40,50,60
18-Apr 14,	6.2 # 16,26,30,38,50	20-Apr	Midterm
25-Apr 15,	6.3 # 8,14,20,35,50	27-Apr	6.4 # 18,30,42,56 6.5 # 18,24
2-May 16,	6.6 # 8 16 6.7 # 20,28,34,60	4-May	6.8 # 10,18,24,28,36,46,55,60 6.9 # 12,20
9-May 17,	6.10 # 14,24,34,42,56	11-May	Test 3
16-May 18,	7.7 # 18,30,32 D1.1 # 20,26,30	18-May	D1.2 8,12,18 D1.3 10, 22
23-May 19,	MyMathLab.com Course Code: jones50531	25-May	Final 7- 10 AM

## MyLab & Mastering

### Student Registration Instructions

**To register for Math 1A Spring 2017 Jones Calculus 1:**

1. Go to [pearsonmylabandmastering.com](http://pearsonmylabandmastering.com).
2. Under Register, click **Student**.
3. Enter your instructor's course ID: [jones50531](#), and click **Continue**.
4. Sign in with an existing Pearson account or create an account:
  - If you have used a Pearson website (for example, MyITLab, Mastering, MyMathLab, or MyPsychLab), enter your Pearson **username** and **password**. Click **Sign in**.
  - If you do not have a Pearson account, click **Create**. Write down your new Pearson username and password to help you remember them.
5. Select an option to access your instructor's online course:
  - Use the access code that came with your textbook or that you purchased separately from the bookstore.
  - Buy access using a credit card or PayPal.
  - If available, get 14 days of temporary access. (Look for a link near the bottom of the page.)
6. Click **Go To Your Course** on the Confirmation page. Under MyLab & Mastering New Design on the left, click **Math 1A Spring 2017 Jones Calculus I** to start your work.

### Retaking or continuing a course?

If you are retaking this course or enrolling in another course with the same book, be sure to use your existing Pearson username and password. You will not need to pay again.

### To sign in later:

1. Go to [pearsonmylabandmastering.com](http://pearsonmylabandmastering.com).
2. Click **Sign in**.
3. Enter your Pearson account username and password. Click **Sign in**.
4. Under MyLab & Mastering New Design on the left, click **Math 1A Spring 2017 Jones Calculus I** to start your homework.

### Additional Information

See **Students > Get Started** on the website for detailed instructions on registering with an access code, credit card, PayPal, or temporary access.