

**Twin Cities**  
 UMTYMP Calculus I  
 Fall 2005 Syllabus  
 Text: Stewart, ET-5th Edition

Problems in bold will be graded and should be written on a separate sheet

<i>Class</i>	<i>Day</i>	<i>Date</i>	<i>Title/Section(s)</i>	<i>Due Date</i>
1	Tues	09/06/2005	<b>Functions: Sections 1.1-1.3</b> 1.1: 48, <b>52</b> , 57, 60, <b>(62)</b> 1.2: 8, 11, 19; 1.3: 7, <b>26*</b> , <b>30</b> , <b>(37)</b> , 55, <b>58</b>	<b>9/8</b>
2	Thurs	09/08/2005	<b>Trigonometry: Section 1.4</b> App D: <b>(31)</b> , <b>46</b> , 59, 60, 67, 68, 69, 71, 73, 76, <b>83*</b> 1.4 (include drawings) <b>(20)</b> , <b>30</b> , 31, 32, <b>35</b>	<b>9/15</b>
3	Thurs	09/15/2005	<b>Exp/Logrithms: Sections 1.5-1.6</b> 1.5: 1, 9, 10, 13, <b>(15)</b> , <b>19</b> , 20, 25 1.6: 3, 12, 13, <b>(20)</b> , 21, <b>28</b> , 37, 41, 50, <b>56*</b> , 69, 70	<b>9/22</b>
4	Thurs	09/22/2005	<b>Parametric Curves: Sections 10.1, 10.3</b> 10.1: 2, <b>(4)</b> , 9, 20, 22, <b>24ac</b> , 28ac, 31, <b>33ab*</b> , 35a 10.3: 1, <b>(4)</b> , 7, <b>10</b> , 17, 26, 35, 41, <b>46</b>	<b>10/6</b>
<b>Exam 1</b>	Thurs	09/29/2005	<b><u>Chapter 1, Trigonometry</u></b>	
5	Thurs	10/06/2005	<b>3-D: Sections 12.1, 12.2</b> 12.1: 3, 6, <b>(10)</b> , 14, 18, <b>20</b> , 25, <b>29</b> , 36 12.2: 1, 4, 6, <b>8</b> , 18, <b>(20)</b> , 24, 27, <b>31*</b>	<b>10/13</b>
6	Thurs	10/13/2005	<b>3-D: Sections 12.5</b> 12.5: 1abefg, 3, <b>(4)</b> , 6, <b>9</b> , 11, <b>(17)</b> , <b>19</b> , 23, 26, <b>34</b> , <b>39*</b> , 61, 62	<b>10/18</b>
7	Tues	10/18/2005	<b>Sections 2.1, 2.2</b> 2.1: 1, 4, <b>6</b> 2.2: 1, 2, 5, <b>8</b> , 12, 13, <b>(15)</b> , <b>(23)</b> , <b>24</b> , 25, <b>35*</b> , 40	<b>10/25</b>
8	Tues	10/25/2005	<b>Sections 2.3, 2.4 (start)</b> 2.3: 1aeh, 2, 3, 10, <b>(12)</b> , <b>(17)</b> , 18, 21, <b>37*</b> , <b>44</b> , 50 2.4: <b>3</b> , <b>6</b> , 7, 9	<b>11/10</b>

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9	Thurs	10/27/2005	<b>Sections 2.4 (finish), 2.5</b> 2.4: 19, <b>21</b> , 36, <b>41</b> 2.5: 1, 4, <b>(6)</b> , 7, 12, 16, <b>24</b> , 28, 36, 39, 42, <b>45*</b> , <b>(48)</b> , 50, 59	<b>11/10</b>	:
<b>Exam 2</b>	Thurs	11/03/2005	<b><u>Chapters 10, 12, Sections 2.1-2.2</u></b>		
10	Thurs	11/10/2005	<b>Sections 2.6, 2.7</b> 2.6: 2, <b>3</b> , 6, 13, 15, <b>(16)</b> , 18, 25, <b>26</b> 2.7: 2, 3, 8, <b>(10)</b> , <b>13ab</b> , 15, 17, 19, 21, <b>26*</b>	<b>11/17</b>	:
11	Thurs	11/17/2005	<b>Sections 2.8, 2.9</b> 2.8: <b>3</b> , 4, 10a, 12, <b>16</b> , 17, 21, 23, 29, 36 2.9: 3, 4, 8, 11, 14, <b>(26)</b> , <b>(29)</b> , <b>38</b> , 44, 45, <b>47*</b>	<b>11/22</b>	:
12	<b>Tues</b>	11/22/2005	<b>CCC 2.10 - What Does <math>f'</math> Tell Us About <math>f</math>.</b> CCC 2.10: <b>(2)</b> , <b>(3)</b> , 4, 7, 8, <b>11*</b> , 20, <b>28</b> , <b>29</b>  <b>THANKSGIVING BREAK</b>	<b>11/29</b>	:
13	<b>Tues</b>	11/29/2005	<b>Section 3.1</b> 3.1: 3, 6, 9, 15, <b>(18)</b> , <b>(20)</b> , 25, <b>32</b> , 45, <b>47</b> , 49, 53, <b>54</b> , 57, <b>64*</b>	<b>12/6</b>	:
14	Thurs	12/01/2005	<b>Sections 3.2, 3.3</b> 3.2: 12, <b>(14)</b> , <b>(18)</b> , 20, <b>26</b> , 27 (include picture), 32, 33, <b>34</b> , 38, <b>43*</b> 3.3: 1a-e, 14, 16bc, 26, <b>28</b>	<b>12/6</b>	:
15	<b>Tues</b>	12/06/2005	<b>Sections 3.4, 3.5</b> 3.4: 6, <b>(8)</b> , 12, <b>16</b> , 18, 25a, 31, 36, 40, <b>47*</b> 3.5: 6, <b>(12)</b> , 18, 32, <b>42</b> , 52, <b>53</b> , 57, 62, 75	<b>12/20</b>	:
16	Thurs	12/08/2005	<b>Sections 3.6, 3.7</b> 3.6: 1, 17, <b>(20)</b> , 25, <b>28</b> , <b>42</b> , 48, 57, 59, <b>67*</b> , 68bc 3.7: 1, 2, 3, <b>(10)</b> , 14, <b>30</b>	<b>12/20</b>	:
<b>Exam 3</b>	<b>Wed</b>	12/14/2005	<b><u>Sections 2.3-2.9, CCC 2.10, Sections 3.1-3.3</u></b>		
17	<b>Tues</b>	12/20/2005	<b>Sections 3.8, 3.10</b> 3.8: 2, 5, 9, <b>(10)</b> , 11, <b>(14)</b> , 15, <b>20</b> , <b>25</b> , 27, <b>31</b> , 33, <b>37*</b>	<b>1/12</b>	:

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<i>Class</i>	<i>Day</i>	<i>Date</i>	<i>Title/Section(s)</i>	<i>Due Date</i>	<i>Returned</i>
1	Tues	09/06/2005	<b>Functions: Sections 1.1-1.3</b> 1.1: 48, <b>52</b> , 57, 60, <b>(62)</b> 1.2: 8, 11, 19; 1.3: 7, <b>26*</b> , <b>30</b> , <b>(37)</b> , 55, <b>58</b> GW: 1.1 #2; 1.2 #2,3; 1.3 #1,3	9/8	9/15
2	Thurs	09/08/2005	<b>Trigonometry: Section 1.4</b> App D: <b>(31)</b> , <b>46</b> , 59, 60, 67, 68, 69, 71, 73, 76, <b>83*</b> 1.4 (include drawings) <b>(20)</b> , <b>30</b> , 31, 32, <b>35</b> GW: from 1.4, plus an additional one (to be written) for Appdx D	9/15	9/22
3	Thurs	09/15/2005	<b>Exp/Logrithms: Sections 1.5-1.6</b> 1.5: 1, 9, 10, 13, <b>(15)</b> , <b>19</b> , 20, 25 1.6: 3, 12,13, <b>(20)</b> ,21, <b>28</b> , 37,41,50, <b>56*</b> ,69,70 GW: 1.5 #2, 1.6 #2,3,4 (+hint sheet for #4 on separate page)	9/22	9/22
4	Thurs	09/22/2005	<b>Parametric Curves: Sections 10.1, 10.3</b> 10.1: 2, <b>(4)</b> , 9, 20, 22, <b>24ac</b> , 28ac, 31, <b>33ab*</b> , 35a 10.3: 1, <b>(4)</b> , 7, <b>10</b> , 17, 26, 35, 41, <b>46</b> GW: 10.1 #1,2;10.3 #1,3	10/6	10/6
<b>Exam 1</b>	Thurs	09/29/2005	<b><u>Chapter 1, Trigonometry</u></b>		
5	Thurs	10/06/2005	<b>3-D: Sections 12.1, 12.2</b> 12.1: 3, 6, <b>(10)</b> , 14, 18, <b>20</b> , 25, <b>29</b> , 36 12.2: 1, 4, 6, <b>8</b> , 18, <b>(20)</b> , 24, 27, <b>31*</b> GW 12.1: #1 (answers on separate sheet) #2; 12.2: #2, #4	10/13	10/25
6	Thurs	10/13/2005	<b>3-D: Sections 12.5</b> 12.5: 1abefg, 3, <b>(4)</b> , 6, <b>9</b> , 11, <b>(17)</b> , <b>19</b> , 23, 26, <b>34</b> , <b>39*</b> , 61, 62 GW: preparation needed (described in instructor's guide)	10/18	10/25
7	Tues	10/18/2005	<b>Sections 2.1, 2.2</b> 2.1: 1, 4, <b>6</b> 2.2: 1, 2, 5, <b>8</b> , 12, 13, <b>(15)</b> , <b>(23)</b> , <b>24</b> , 25, <b>35*</b> , 40 GW: 2.1 #1, #2 (Nitty Gritty); 2.2 #1 #3	10/25	11/10
8	Tues	10/25/2005	<b>Sections 2.3, 2.4 (start)</b> 2.3: 1aeh, 2, 3, 10, <b>(12)</b> , <b>(17)</b> , 18, 21, <b>37*</b> , <b>44</b> , 50 2.4: <b>3</b> , <b>6</b> , 7, 9 GW: 2.3 #1,2,3; 2.4 #1	11/10	11/17

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9	Thurs	10/27/2005	<b>Sections 2.4 (finish), 2.5</b> 2.4: 19, <b>21</b> , 36, <b>41</b> 2.5: 1, 4, <b>(6)</b> , 7, 12, 16, <b>24</b> , 28, 36, 39, 42, <b>45*</b> , <b>(48)</b> , 50, 59 GW 2.4 #2 9not suppl. Probs), 3; 2.5 #1, 3	<b>11/10</b>	11/17
<b>Exam 2</b>	Thurs	11/03/2005	<b><u>Chapters 10, 12, Sections 2.1-2.2</u></b>		
10	Thurs	11/10/2005	<b>Sections 2.6, 2.7</b> 2.6: 2, <b>3</b> , 6, 13, 15, <b>(16)</b> , 18, 25, <b>26</b> 2.7: 2, 3, 8, <b>(10)</b> , <b>13ab</b> , 15, 17, 19, 21, <b>26*</b> GW: 2.6 #2, 3: 2.7: 1,2	<b>11/17</b>	11/22
11	Thurs	11/17/2005	<b>Sections 2.8, 2.9</b> 2.8: <b>3</b> , 4, 10a, 12, <b>16</b> , 17, 21, 23, 29, 36 2.9: 3, 4, 8, 11, 14, <b>(26)</b> , <b>(29)</b> , <b>38</b> , 44, 45, <b>47*</b> GW 2.8: #1,3; 2.9: #1, #3	<b>11/22</b>	11/29
12	<b>Tues</b>	11/22/2005	<b>CCC 2.10 - What Does <math>f'</math> Tell Us About <math>f</math>.</b> CCC 2.10: <b>(2)</b> , <b>(3)</b> , <b>4</b> , 7, 8, <b>11*</b> , 20, <b>28</b> , <b>29</b> Gw: from CCC Instructor's Guide	<b>11/29</b>	12/6
<b>THANKSGIVING BREAK</b>					
13	<b>Tues</b>	11/29/2005	<b>Section 3.1</b> 3.1: 3, 6, 9, 15, <b>(18)</b> , 20, 25, <b>32</b> , 45, <b>47</b> , 49, 53, <b>54</b> , 57, <b>64*</b>	<b>12/6</b>	12/20
14	Thurs	12/01/2005	<b>Sections 3.2, 3.3</b> 3.2: 12, <b>(14)</b> , <b>(18)</b> , 20, <b>26</b> , 27 (include picture), 32, 33, <b>34</b> , 38, <b>43*</b> 3.3: 1a-e, 14, 16bc, 26, <b>28</b> GW: 3.2 #1, #2; 3.3 #1	<b>12/6</b>	12/20
15	<b>Tues</b>	12/06/2005	<b>Sections 3.4, 3.5</b> 3.4: 6, <b>(8)</b> , 12, <b>16</b> , 18, 25a, 31, 36, 40, <b>47*</b> 3.5: 6, <b>(12)</b> , 18, 32, <b>42</b> , 52, <b>53</b> , 57, 62, 75 GW 3.4: #1, #2; 3.5 #1, #3	<b>12/20</b>	1/12
16	Thurs	12/08/2005	<b>Sections 3.6, 3.7</b> 3.6: 1, 17, <b>(20)</b> , 25, <b>28</b> , <b>42</b> , 48, 57, 59, <b>67*</b> , 68bc 3.7: 1, 2, 3, <b>(10)</b> , 14, <b>30</b> GW: 3.6: #1, #2; 3.7 #1, #2, #3	<b>12/20</b>	1/12
<b>Exam 3</b>	<b>Wed</b>	12/14/2005	<b><u>Sections 2.3-2.9, CCC 2.10, Sections 3.1-3.3</u></b>		
17	<b>Tues</b>	12/20/2005	<b>Sections 3.8, 3.10</b> 3.8: 2, 5, 9, <b>(10)</b> , 11, <b>(14)</b> , 15, <b>20</b> , <b>25</b> , 27, <b>31</b> , 33, <b>37*</b>	<b>1/12</b>	1/19

GW: 3.8: #1, #3; 3.10 #1

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1	Thurs	01/12/2006	<b>Sections 3.10, 3.11</b>		
2	Thurs	01/19/2006	<b>Section 4.1</b>		
3	Thurs	01/26/2006	<b>Section 4.2</b>		
4	<b>Tues</b>	01/31/2006	<b>Sections 4.3, 4.5</b>		
5	Thurs	02/02/2006	<b>Sections 4.4, 4.7</b>		
<b>Exam 1</b>	Thurs	02/09/2006	<u><b>Sections 3.4-3.10, 4.1</b></u>		
6	Thurs	02/16/2006	<b>Sections 4.7, 4.9</b>		
7	Thurs	02/23/2006	<b>Sections 4.9, 4.10</b>		
8	<b>Tues</b>	02/28/2006	<b>Sections 5.1, 5.2</b>		
9	Thurs	03/02/2006	<b>Sections 5.2, 5.3</b>		
10	Thurs	03/09/2006	<b>Sections 5.3, 5.4</b>		
<b>SPRING BREAK</b>					
11	<b>Tues</b>	03/21/2006	<b>Sections 5.5, 5.6 (Brief)</b>		
12	Thurs	03/23/2006	<b>Sections 6.1, 6.2</b>		
<b>Exam 2</b>	Thurs	03/30/2006	<u><b>Sections 4.2-4.10, 5.1-5.4</b></u>		
13	<b>Tues</b>	04/06/2006	<b>Sections 6.3, 6.4</b>		
14	Thurs	04/13/2006	<b>Section 7.1</b>		
15	<b>Tues</b>	04/18/2006	<b>Sections 7.2, 7.3</b>		
16	Thurs	04/20/2006	<b>Sections 7.4, 7.5</b>		
17	<b>Tues</b>	04/25/2006	<b>Section 7.8</b>		
18	Thurs	04/27/2006	<b>Sections 8.1, 8.2</b>		

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<b>Exam 3</b>	Thurs	05/04/2006	<b><u>Sections 5.5-5.6, 6.1-6.4, 7.1-7.5, 7.8</u></b>		

**Students are also strongly encouraged to attend optional exam review days listed below:**

Optional Exam 1 Review	Tuesday, February 7, 2006
Optional Exam 2 Review	Tuesday, March 28, 2006
Optional Exam 3 Review	Tuesday, May 2, 2006