**MATH 166, Calculus II, 4 credits, Fall 2010**
Lecture: MWF 12:00-12:50, Minard Hall 138

INSTRUCTOR: Sean Sather-Wagstaff                    OFFICE: Minard Hall 305C
E-MAIL: `sean.sather-wagstaff@ndsu.edu`                    PHONE: 231-8105
WEBPAGE: `http://www.ndsu.edu/pubweb/~ssatherw/`
ONLINE EVAL: `http://www.ndsu.edu/pubweb/~ssatherw/ssw-eval.html`
OFFICE HOURS: M 2:30-3:20, WF 11:00–11:50, and by appointment

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TEACHING ASSISTANT: Pye Aung                    OFFICE: Minard Hall 302E
E-MAIL: `pye.aung@ndsu.edu`                    PHONE: 231-9451
WEBPAGE: `http://www.ndsu.edu/pubweb/~aung/`
ONLINE EVAL: `http://www.ndsu.edu/pubweb/~ssatherw/gradevals/aung.html`
OFFICE HOURS:

TEACHING ASSISTANT: Mark Batell                    OFFICE: Minard Hall 306
E-MAIL: `mark.batell@ndsu.edu`                    PHONE: 231-8174
WEBPAGE: `http://www.ndsu.edu/pubweb/~batell/`
ONLINE EVAL: `http://www.ndsu.edu/pubweb/~ssatherw/gradevals/batell.html`
OFFICE HOURS:

TEACHING ASSISTANT: Kevin Welch                    OFFICE: Minard Hall 301B
E-MAIL: `kevin.welch@ndsu.edu`                    PHONE: 231-8408
WEBPAGE: TBA
ONLINE EVAL: `http://www.ndsu.edu/pubweb/~ssatherw/gradevals/kwelch.html`
OFFICE HOURS:

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USEFUL WEBPAGES:
Course webpage: `http://www.ndsu.edu/pubweb/~ssatherw/fa10/166/`
Math department webpage: `http://math.ndsu.nodak.edu/`
NDSU webpage: `http://www.ndsu.edu`
NDSU blackboard site: `https://bb.ndsu.nodak.edu`
NDSU webpage on academic responsibility: `http://www.ndsu.nodak.edu/policy/335.htm`

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PREREQUISITE: MATH 165

REQUIRED TEXT: *Calculus, Early Transcendentals*, Sixth Edition, by J. Stewart

COURSE DESCRIPTION: Topics include applications and techniques of integration, polar equations, parametric equations, sequences and series, power series. MATH 166 meets for 150 minutes of lecture and 100 minutes of recitation each week.

COURSE GRADES: Student grades are based on attendance and participation, quizzes, three (3) midterm examinations, and one (1) comprehensive final examination covering students' understanding of topics covered in MATH 166. Grades will be updated throughout the semester at the NDSU Blackboard site. Weights are summarized in the following table along with grade ranges.

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|---|---|---|---|
| Attendance and participation | 5% | A | 90–100% |
| Quizzes | 15% | B | 80–89.9% |
| Midterm Exams | 20% each | C | 70–79.9% |
| Final Exam | 20% | D | 60–69.9% |
| | | F | 0–59.9% |

HOMEWORK: Homework will be assigned daily in lecture. Assignments are listed on p. 4 of this syllabus. Homework solutions will not be collected. Students are encouraged to work on homework in groups.

QUIZZES: Quizzes will be given at least once per week in recitation, except during exam weeks. Books, notes and calculators will not be allowed during the quizzes. Your two (2) lowest quiz scores will be dropped. Make-up quizzes will not be allowed.

ATTENDANCE: Your presence, attention, and participation in lecture and recitation will greatly help your performance in this class. Attendance will be taken most days in lecture via PRS quiz, using the following rubric:

2 pts. for a correct response       1 pt. for an incorrect response       0 pts. for no response.

Attendance also may be taken in recitation. Officially excused absences will not be counted against you, but you must document such situations explicitly.

EXAMS: Midterm exams will have two parts each: the first part will be taken outside of class and will last 90 minutes; the second part will be "take-home", due in the next recitation meeting. The final examination will be comprehensive and will last 2 hours. Books, notes and calculators will not be allowed during the exams. All exams will be taken using blue books. Make-up exams will only be allowed under extreme circumstances. If you have a conflict with one of the exam dates, you are responsible for making alternative arrangements beforehand.

BLUE BOOKS: Each student is required to supply four blank (4) blue books to her/his TA by Thursday 02 September.

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SCHEDULE: The instructor reserves the right to make reasonable changes to the schedule.

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|---|---|
| Last day for No Record Drop of classes | Wed 01 Sep, 11:59 PM |
| Blue book deadline | Thu 02 Sep, 5:00 PM |
| Labor Day holiday | Mon 06 Sep |
| Midterm 1 review | Wed 29 Sep, 6:00–7:30 PM, Ladd Hall 107 |
| Midterm 1 | Thu 30 Sep, 6:00–7:30 PM, Stevens Auditorium |
| Midterm 2 review | Wed 27 Oct, 6:00–7:30 PM, Ladd Hall 107 |
| Midterm 2 | Thu 28 Oct, 6:00–7:30 PM, Stevens Auditorium |
| Veteran's Day holiday | Thu 11 Nov |
| Last day to Drop Classes (W) | Fri 12 Nov, 11:59 PM |
| Thanksgiving holiday | Thu 25 Nov and Fri 26 Nov |
| Midterm 3 review | Wed 01 Dec, 6:00–7:30 PM, Ladd Hall 107 |
| Midterm 3 | Thu 02 Dec, 6:00–7:30 PM, Stevens Auditorium |
| Classes end | Fri 10 Dec |
| Final Exam review | Mon 13 Dec, 6:00–7:30 PM, Ladd Hall 107 |
| Final Exam | Tue 14 Dec, 1:00–3:00 PM, Minard Hall 138 |

LECTURE NOTES: Clear and thorough course notes will provide you with a basis for your preparations for homework assignments, quizzes, and exams. You are responsible for taking notes during class, as lecture notes will not be posted online.

GRAPHING CALCULATORS: Graphing calculators are not required for this course, but you may find one useful. Calculators will not be allowed in the quizzes or exams.

WORKLOAD: 10–15 hours/week on this course outside of lecture and recitation.

ANNOUNCEMENTS: Periodically, course announcements will be sent to your ndsu.edu email account. It is your responsibility to check this email account regularly.

QUESTIONS: If something the instructor or teaching assistant says or writes in class is unclear, raise your hand and ask a question. He or she will try to clarify the point being made.

GROUP STUDY: You are required to find at least one person in the class with whom you can study. Not only does this help you study better, but also, in the event you miss a lecture, you can get the notes and assignments from this person.

TEXT READING: Read the relevant sections of the text book before lecture. Even if you do not understand everything, seeing it once before it is presented will help you follow lecture.

OFFICE HOURS: Come to office hours for help. This gives the instructor or teaching assistant the opportunity to focus on specific problems you may be having and to explain things in a more personal manner. If the scheduled times are bad for you, make an appointment.

INSTRUCTOR/TA FEEDBACK: At the course webpage, there is a link to an anonymous evaluation form where students can submit comments or suggestions for the instructor and/or teaching assistant at any time during the semester.

ADA STATEMENT: The Americans with Disabilities Act requires that reasonable accommodations be provided for students with physical, cognitive, systemic, learning and psychiatric disabilities in order to ensure their equal access to course content. If you have a documented disability and require accommodations, please let your instructor know as soon as possible. For more information, please contact Disability Services at 231-7671 or go to
http://www.ndsu.edu/counseling/disability.shtml.

ACADEMIC HONESTY: All work in this course must be completed in a manner consistent with NDSU University Senate Policy, Section 335: Code of Academic Responsibility and Conduct. First violations of this policy in this course will result in a 0 for the quiz or exam on which academic misconduct occurred. Further violations will result in more severe penalties. You can read the Senate Policy at http://www.ndsu.nodak.edu/policy/335.htm.

COURTESY: Cellular telephones, pagers, and other similar devices are not to be used and are to be turned off or set to vibrate-mode during class-time. Students violating this policy will receive one warning per semester. After the warning, violations will result in loss of attendance/participation credit for that day.

TENTATIVE COURSE OUTLINE:
Chapter 6 (5 days) Integrals
Chapter 7 (8 days) Techniques of Integration
Chapter 8 (5 days) Further Applications of Integration
Chapter 10 (6 days) Parametric Equations and Polar Coordinates

Chapter 11 (11 days) Infinite Sequences and Series

HOMEWORK EXERCISES

| Section | Exercise numbers (odd numbers only) |
|---------|-------------------------------------|
| 6.1 | 1–33, 41–45, 49–53 |
| 6.2 | 1–35, 41–71 |
| 6.3 | 1–31, 37–45 |
| 6.4 | 1–23, 27, 29 |
| 6.5 | 1–9, 13–23 |
| 7.1 | 1–37, 43–53, 57–67 |
| 7.2 | 1–49, 55, 57, 61–69 |
| 7.3 | 1–35, 39–43 |
| 7.4 | 1–51, 55–65, 69 |
| 7.5 | 1–81 |
| 7.6 | 1–33 |
| 7.7 | 1, 21, 37, 47 |
| 7.8 | 1–41, 49–79 |
| 8.1 | 1–17, 31–37, 41 |
| 8.2 | 1–15, 25–35 |
| 8.3 | 1–35, 39–47 |
| 8.4 | 1–5, 11–19 |
| 8.5 | 1–5, 9–17 |
| 10.1 | 1–23, 25, 27, 31, 39–43 |
| 10.2 | 1–7, 11–15, 25–35, 41, 43, 49–53, 59–73 |
| 10.3 | 1–69 |
| 10.4 | 1–13, 17–41, 45–51 |
| 10.5 | 1–63 |
| 10.6 | 1–15, 21–29 |
| 11.1 | 1–45, 55–71, 75, 77 |
| 11.2 | 1, 9–51, 55–75 |
| 11.3 | 1–35, 39, 41 |
| 11.4 | 1–45 |
| 11.5 | 1–19, 23–35 |
| 11.6 | 1–33, 37, 39 |
| 11.7 | 1–37 |
| 11.8 | 1–33, 37–41 |
| 11.9 | 1–31, 37, 39 |
| 11.10 | 1–37, 43–71 |
| 11.11 | 13–21 [(a) and (b) only], 25, 31, 33, 37, |