

MATHEMATICS 104 Course Information for the Students

TEXT: Understanding Intermediate Algebra: A Course for College Students, 5th ed.; Hirsch/Goodman. ISBN 0-534-38125-1

COURSE OBJECTIVES: To meet the needs of students entering the University with Course Code R or with credit for 050 who need to complete Math 130 or 148. Completion of Math 104 is required for entry into some degree granting colleges.

CALCULATORS: The TI-89, TI-92, and any calculator that uses a Computer Algebra System are not allowed in this course.

EXAMINATIONS: Attendance at the midterms and the final is required. Students must take examinations at the assigned time and place and must have a student photo identification at each examination. Any student who has an examination time conflict with another *regularly scheduled OSU course* will be given the examination at an alternative time. Students with other types of time conflicts (work, social activities, etc.) should make arrangements to take the examination as scheduled.

WORK CONFLICTS: Most employers will permit their student employees time off to take department examinations. In the event that your employer will not permit such time off, please have the employer write on *business letterhead stationery* a letter indicating (1) your work hours and (2) that you *must* be on the job during those hours. Give the letter to your lecturer and, when confirmed, alternative arrangements *may* be approved.

NOTICE: The prerequisite for this course is Math 050 (or placement level R). Students who received a grade of E in 050 do not have the prerequisite and will be dismissed from this course in accordance with faculty rule #3335-7-33. Furthermore, students who received grades of D or D+ in Math 050 are unlikely to pass this course and are advised to repeat 050. Please see your advisor to adjust your schedule if necessary.

COURSE GRADES. The grade you receive in Math 104 will be based on your midterm scores, recitation score, and final examination score. You may use the following letter grade scale to evaluate your performance on the examinations. **Note:** Adjustments may be made to the scale at the end of the quarter.

GRADING SCALE (Percent):

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|
| A | A– | B+ | B | B– | C+ | C | C– | D+ | D |
| 90 | 87 | 83 | 80 | 77 | 73 | 70 | 67 | 63 | 60 |

TOTAL POINTS POSSIBLE

| | | |
|--------------------|------------|-----------|
| Recitation | 100 | |
| Midterms | 300 | (3 @ 100) |
| <u>Final</u> | <u>200</u> | |
| TOTAL..... | 600 | |

RECITATION GRADE. 100 points are determined by performance in recitation. (60 points for the highest 6 out of 7 quizzes, and 40 points for homework) Homework problems are assigned for each section (details are given on back). The homework assignment for each week should be handed in during recitation of the following Tuesday.

Students have the responsibility to master the mathematical ideas presented in the lectures, recitation classes, and assigned homework. Students are encouraged to examine related problems from the text.

ADVICE. A passing grade in Math 104 is very rare for anyone who has fallen behind several weeks. In fact, students who fail the First Midterm almost always fail the course. Here is the strategy for success in this course:

Keep up with the course material and work on math every day.

You cannot learn mathematics (or anything worthwhile) by simply watching. Get involved in your own education: think, work hard, ask questions. You won't regret it.

HELP WITH THE COURSE

The mathematical topics discussed in this course are carefully presented in the textbook. Your lecturer and recitation instructor will have weekly office hours for individual student help. In addition the MSLC has a tutor room available for Math 104 students. Its schedule this quarter is probably:

Daytime hours: 9:30 a.m. – 4:30 p.m. on Mon., Tues., Wed., Thur.

9:30 a.m. – 1:30 p.m. on Fri.

Evening hours: 5:00 p.m. – 7:00 p.m. at the Younkin Success Center

An updated schedule of tutoring times and rooms can be found at <http://www.mslc.ohio-state.edu>.

WebCT

WebCT is a web-based course tool that allows you to access your grades, online course materials, and course calendar. You can access WebCT by going to <https://webct.mps.ohio-state.edu>. Because you will have access to your grades, you will need to use your OSU ID and password to access the site. This is the same information that you use to access information on the Registrar's website. Any questions regarding access to WebCT for this course should be sent to webcthelp@mps.ohio-state.edu.

EXAMINATION SCHEDULE

There will be **THREE MIDTERM EXAMS** given in the evening during the Quarter. Copies of old midterm exams for Math 104 are available on WebCT and on the Math 104 webpage (<http://www.math.ohio-state.edu/courses/math104>).

All the examinations in Math 104 will be given **in the evening**. Locations will be announced later. The exams will probably **not be held in your regular classroom**.

| | | | |
|-------------|---------------|------------------------------|------------------|
| MIDTERM I | (through 4.3) | Tuesday, October 14, 2003 | 5:30 – 6:20 p.m. |
| MIDTERM II | (through 6.8) | Tuesday, November 4, 2003 | 5:30 – 6:20 p.m. |
| MIDTERM III | (through 8.6) | Tuesday, December 2, 2003 | 5:30 – 6:20 p.m. |
| FINAL EXAM | | Wednesday, December 10, 2003 | 5:30 – 7:20 p.m. |

Accommodations made for students with disabilities. Contact Office for Disability Services.

HOMEWORK MATH 104:

You are responsible for completing all of the assigned problems, even though you will only be graded on those problems that will be handed in. Any problem listed on this sheet is a potential candidate for inclusion on an exam. It would be best to do all of the problems as a complete set and then neatly rewrite the problems to be handed in on a separate sheet of paper. This will give you a complete set to use when studying for an exam.

| Section | Exercises | Hand in |
|----------------|--|--------------------|
| 1.4* | 3, 5, 9, 11, 13, 19, 23, 27 | 23 |
| 2.1 | 1 – 23 odd | 3, 9, 13, 21 |
| 1.5* | 3, 11, 19, 25, 33, 39, 43 | 19 |
| 2.2 | 1 – 81 Every Other Odd (EOO) | 5, 9, 49, 53 |
| 2.3 | 1 – 85 EOO (Use interval notation for #33 and higher) | 13, 37, 57, 61, 73 |
| 3.1 | 1, 5, 9, 11, 15, 17, 23, 27, 31, 33, 39, 43, 57, 59, 61, 63 | 5, 15 |
| 3.2 | 1 – 23 odd | 11, 15, 21 |
| 3.3 | 1 – 61 odd, 81, 83 (Use interval notation for the domain and range.) | 13, 27, 41, 49, 73 |
| 3.4 | 1 – 53 odd | 9, 17, 29, 43, 53 |
| 4.1 | 1 – 37 EOO, 43, 49, 53, 57, 59, 63 | 9, 49 |
| 4.2 | 1, 5, 13, 17, 21, 25, 29, 33, 37, 41, 45, 49, 57, 65, 67, 69 | 13, 29, 57 |
| 4.3 | 1 – 55 odd | 7, 11, 23, 45, 49 |
| 5.3* | 1 – 45 EOO (Warm-up for 5.5) | |
| 5.4* | 1 – 45 EOO | 13, 41 |
| 5.5* | 1 – 73 EOO | 33, 45, 61 |
| 6.1 | 1 – 21 odd | 13, 17 |
| 6.2 | 1 – 47 odd | 3, 29, 39 |
| 6.3 | 1 – 45 odd | 3, 7, 19, 27, 33 |
| 6.4 | 1 – 67 odd | 5, 13, 25, 43, 51 |
| 6.5 | 1 – 35 odd | 7, 13, 17, 21, 33 |
| 6.6 | 1 – 53 EOO | 13, 21, 29, 37, 45 |
| 6.7 | 1 – 41 odd | 5, 19, 27, 31, 41 |
| 6.8 | 1 – 61 EOO, 43 | 9, 29, 43, 45, 61 |
| 7.3 | 1 – 93 EOO | 9, 25, 61, 81, 93 |
| 7.4 | 1 – 61 EOO | 25, 53 |
| 7.5 | 1 – 57 EOO | 5, 33, 45 |
| 7.6 | 1 – 69 EOO | 21, 29, 37, 45, 53 |
| 7.7 | 1 – 57 odd | 9, 17, 29, 33, 45 |
| 8.1 | 1 – 13 odd | 3, 5, 9, 11 |
| 7.8 | 1 – 21 odd | 3, 17 |
| 8.2 | 1 – 89 EOO | 17, 41, 81 |
| 8.3 | 1 – 23 odd | 3, 9, 13, 17, 21 |
| 8.4 | 1 – 73 odd | 5, 17, 31, 39, 69 |
| 8.5 | 1 – 65 odd | 3, 13, 33, 51, 61 |
| 8.6 | 1 – 21 odd, 25, 29 – 49 odd | 7, 19, 31, 43, 49 |
| 9.3 | 1 – 57 odd | None |

* More problems from these sections should be done for further review