

MATH 125 (Intermediate Algebra) – Prerequisite Math 115

Section - 1345 (Saturdays 8:00 AM - 1:25 PM – MS 106) – Office Hours: Saturdays 1:30 – 2:15 PM

Spring 2016 (Los Angeles Valley College)

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Web sites: <http://my.lavc.edu> www.mnassimi.com www.lavcmath.com www.khanacademy.org

Course Objective: This course reviews concepts learned in Math 115 or (Math 113 & 114) and applies them to more complicated problems; also covers inequalities, setting up and solving a variety of word problems, absolute values, relations, functions, conic sections, exponential and logarithmic functions, & sequences. This class will teach YOU the skills needed for many succeeding courses in Algebra and related disciplines

Textbooks: 1) Intermediate Algebra (Jan. 2015) by “Masoud Nassimi” [Required]
2) Intermediate Algebra Exercises (The Big Book) by “Teresa V. Sutcliffe” [Required]

Homework: Selected problems from each section of Sutcliffe book are assigned (See page 4). Students are required to work these problems thoroughly and compile them for exam nights. Homework should be done daily to keep up with the class. They will be graded during the exam nights.

Class/Group Work: Small teams will be formed to solve the class-work problems from **Nassimi’s book**. Every student is required to participate actively and the class-work. All class work will collected at the end of class session or as directed by instructor. **Following the policies stated below is mandatory**

Quiz: 10 minutes **surprise** quiz will be given at the end of lecture. The material on the quiz will be from materials covered by homework and/or class-work. **No make up Quiz under any circumstances**

Exams: There will be four (one-hour) tests & Final exam (2 hours). One test with the lowest score will be dropped. **Study Guide** for each test will be posted on Fridays. **No make up exam is allowed under any circumstances.**

Grading Policy: (A: > 90% ; B: 80% - 89% ; C: 70% – 79%; D: 55% - 69% ; & F < 55%)

Class/Group work	15 %
Quiz & Attendance	10 %
Homework	10 %
Three tests (15% each)	45 %
Final exam (Comprehensive).....	20 %

*Affirming it is **solely the responsibility of the students** to drop the class prior to July 9th through the Office of Admissions. Failure to do so will result in a grade of "F"*

If you are a student with a **disability** requiring classroom accommodations, and have not contacted SSD, do so in a timely manner. SSD is located in the Student Services Annex, Room 175 or call SSD at (818) 947-2681 or TTD (818) 947-2680 to meet with a SSD counselor. Please meet with me to discuss arrangements during the break time

Homework / Class-work & Exam Policy

- Write (Print) your name (Last, First) on all documents you submit, No name, No credit
- Use the paper properly (Be neat, clear & organized. (Do not write too big or too small)
- Leave one line in between and show all the steps involved in the solution (**Required**)
- Write on one side of the paper only (**Backside of the paper will not be graded**)
- Use standard paper size (8 ½ “ X 11”)
- Assemble all your papers and must be **stapled** prior to submittal. No loose papers will be collected
- class-works (if not finished in the class time) will be collected only at the beginning of next class

List of the items that must be purchased for this class:

- Text books (Required)
- Graph Papers (about 50)
- 8 ½" X 11" papers (about 300)
- Scientific Calculator
- Staple
- Ruler
- Index cards

Class Ethics & Rules:

- ✓ Each Student is required to participate in class activities and try his/her best to solve the given problem.
- ✓ If you miss the lecture, it is your responsibility to update yourself about the class from your fellow student(s).
- ✓ If you come late or has to leave early, please use the back door and sit/leave quietly & turn in your homework on the break time.
- ✓ Always respect your classmates and the instructor by not disturbing anyone in any form.
If anyone mis-behaves while class is in session, the instructor will ask him/her to leave the classroom for the whole session on that day. Repetition of miss-behavior(s) will result to the formal disciplinary action mandated by LAVC regulations and guidelines.
- ✓ **Cell Phones and Text Messaging:** Please turn off or put on vibration all phones before coming to class. No text messaging, no MP3's, no ipods, and no hand-held video games while class is in session. Class time is for learning mathematics, not for personal communication or entertainment.
- ✓ **Cellular phones are not allowed to be used in Instead of calculators during the exam & quiz times**
- ✓ No eating/drinking is allowed on the class-room.
- ✓ **Zero Policy on Cheating:** According to district policy, a student caught cheating on a test should be given "F" on that test, and also Student Services will be contacted to report the incident.
- ✓ The instructor may exclude students who have excessive absences without any prior notification

*Applying all the rules mentioned above is mandatory.
Failure to abide these rules may result your exclusion from the class*

According to college guidelines, a student must spend a minimum of
Two hours studying Outside of class for every One hour spend in class

Important Deadlines:

- Drop the class without receiving "W" & full Refund is Feb. 21st
- Drop the class with receiving "W" is May 8th

At the end of semester, a letter grade will be assigned to all active students

MATH 125 - CLASS SCHEDULE

Date		Topics	Nassimi Book		Sutcliffe Book
			Ch.	Pages	Page
Feb.	20	Opening Remarks – Real No., Sets, Equation (1 Var.) Inequalities, interval notation, absolute value	1	3 – 20	229 – 240 341 – 355
	27	Solving Linear Equations (Elimination)	3	43 – 45	445 – 455
		Word Problem - Number, Geometry, Age	4	63 – 80 94 – 98	478 – 487 495 – 519
March	05	Rectangular Coordinate System – Slope of the line, Equation of a Line; Graphing	2	23 – 40	381 – 400
	12	Exam - 1 (Covers material studied from Feb. 20 -27th)			
		Solving Linear Equations - Matrix & Determinant	3	46 – 57	456 – 469
	19	Exponents laws; Scientific Notation, Polynomials Binomial expansion	5	113 – 130	06 – 38
	26	Factoring; Special Factoring;	6	133 – 146	55 – 79
		Word Problem - Mixture, Investment, Coin	4	81 – 90	520 – 528
April	02	Spring Break			
	09	Exam - 2 (Covers material studied from March 05 - 19)			
		Rationales; Absolute Value; Inequalities	7	149 – 168	87 – 136 356 – 371
	16	Radicals; Complex Numbers	8 9	171 – 192	151 – 207
	23	Quadratic; Rational; & Radical Equations Functions	10 11	195 – 224	241 – 289 559 – 594
	30	Logarithm	12	231 – 242	613 – 647
May	07	Exam - 3 (Covers material studied from March 26 to April 23)			
		Word Problem - Motion, Work, Variation	4	91 – 93 101 – 110	529 – 552 595 – 601
	14	Conic Section - Parabolas & Circle, Ellipse & Hyperbola	13	245 – 260	417 – 434
	21	Exam - 4 (Covers material studied from April 30 to May 07)			
		Sequences and Series (Arithmetic & Geometric)	14	263 – 266	659 – 677
	28	Review			
June	04	Final Exam (Comprehensive)			

MATH 125 – Assignment Sheet

Selected Homework Problems

From: Intermediate Algebra (Big Book) by “Teresa Sutcliffe”

	Pages	Problem Numbers
Due Exam – 1 (15 pts)	229-233	1, 7, 10, 14, 17, 19
	341-345	2, 10, 15, 38, 48, 60, 69
	234-240	9, 19, 24, 28, 37, 43, 53
	346-355	1, 8, 19, 27, 32, 37, 40
	445- 448	3, 7, 12, 18, 27
	449-455	3, 9, 16, 20
	478- 487	1, 7, 12, 17, 25, 27
	495-501	3, 8, 11, 16
	502-519	1, 7, 13, 21, 29, 32

Due Exam – 2 (20 pts)	385-390	4, 14, 24, 28, 35, 44
	391-393	47, 54, 61, 73, 85, 90
	394-400	3, 6, 11, 17, 23, 29, 34, 40
	456 - 469	5, 23, 32, 35, 38, 39, 40
	06-09	9, 19, 33, 39, 45
	10-12	3, 10, 15, 20, 21, 23
	13-17	1, 5, 9, 13, 17, 20
	18-22	3, 8, 11, 16, 23, 37
	23-29	4, 13, 18, 26, 35
	29-38	1, 7, 15, 21, 26, 29
	55-58	9, 26, 37, 46, 52, 59
	59-62	4, 15, 22, 39, 49
	63-64	5, 20, 25, 37, 41
	65-67	3, 9, 11, 22, 29, 39
	68-70	3, 11, 20, 23
	71-79	7, 27, 39, 46, 54, 63, 70

Due exam – 4 (15 pts)	613-615	11, 16, 25, 32, 39
	621-625	9, 23, 35, 46, 59, 67, 87, 99
	626-630	131, 139, 149, 157
	630-632	163, 175, 182
	633-638	3, 9, 16, 23, 31, 39, 47
	639-647	3, 5, 11, 14, 18
	529-543	3, 7, 12, 17, 21, 27
	543-552	3, 6, 9, 13, 17, 20
	595-601	7, 10, 15, 21, 29

	Pages	Problem Numbers
Due Exam – 3 (40 pts)	520-528	2, 5, 8, 11, 15, 18
	87-96	1, 7, 14, 17, 23, 29, 33, 47
	97-112	2, 7, 13, 19, 22, 31
	113-120	2, 17, 23, 27, 31
	121-136	3, 7, 13, 22, 33, 43, 49
	356-366	3, 15, 29, 37, 47, 55, 69
	367-371	5, 18, 29, 33, 37
	151-152	9, 19, 28, 33, 47, 60
	153-159	7, 17, 43, 53, 64, 75, 77
	160-163	3, 8, 19, 27, 31, 37
	164-173	5, 15, 23, 29, 45, 61, 77
	174-179	7, 11, 21, 30, 33, 39
	179-187	41, 49, 58, 62, 73, 78, 87
	188-193	11, 24, 31, 43, 51, 65
	194-196	5, 11, 15, 18
	198-204	1, 18, 23, 31, 37, 45, 63, 67
	204-207	69, 80, 83, 89, 96, 102, 103
	241-251	7, 20, 35, 46, 50, 85
	251-257	95, 104, 113, 123, 131
	258-265	3, 13, 16, 29, 39, 53
	266-280	1, 4, 9, 17, 24, 31, 39
	281-289	1, 4, 9, 17, 23, 31, 39, 47
	559-569	1, 7, 19, 23, 41, 55, 72, 89
	570-573	3, 10, 17, 23, 29
	583-586	1, 7, 15, 18
	587-594	3, 7, 15, 18, 19, 32, 33

Due Final Exam (10 pts)	417- 421	27, 35, 45, 47
	421-425	3, 9, 14, 17, 24, 31, 34
	426-430	1, 8, 13, 17, 25, 33, 39
	431- 434	4, 11, 21, 29, 32
	659-662	3, 10, 27, 31
	663	3, 10, 17, 26
	665-671	2, 5, 9, 13, 17
	672-677	1, 5, 8, 11, 17