

# MATH 125 (Intermediate Algebra) – Prerequisite Math 115

Section - 20024 (MW 6:50 - 9:20 PM – MS 113) – Office Hours at MS 112: MW 5:50 – 6:50 p.m.

Spring 2019 (Los Angeles Valley College)

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Web sites: [www.mnassimi.com](http://www.mnassimi.com)

[www.lavcmath.com](http://www.lavcmath.com)

[www.khanacademy.org](http://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 and functions, conic sections, exponential and logarithmic functions, and number series ..

**Textbooks:** 1) Intermediate Algebra - 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. Students are required to work these problems thoroughly and compile them in a separate folder. Homework should be done daily to keep up with the class. Folder will be graded periodically 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 due will be announced at the end of class. **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. **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 .....	12 %
Quiz & Attendance .....	10 %
HW Folder .....	10 %
Three tests (16% each) .....	48 %
Final exam (Comprehensive).....	20 %

*Affirming that after census weeks, it is solely the responsibility of the students to drop themselves through the Office of Admissions. Failure to do so may result in a grade of "F" in the class.*

**SSD (Students with disability):** If you are 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. If SSD has already sent the memo to the instructor confirming accommodations required by student for this class, please meet with me to discuss the necessary arrangements.

## 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))
- 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)
- Index cards
- 8 ½" X 11" papers (about 300)
- Scientific Calculator
- Staple
- Ruler

## Class Ethics & Rules:

- ✓ Each Student is required to participate in class activities and try his/her best to solve the given problem.
- ✓ Students are not allowed to play with their electronic devices during lecture & class work.
- ✓ 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
- ✓ 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 guideline that allow the instructor to exclude a student from the class.***
- ✓ **Cell Phones:** Please turn off or put on vibration all phones before the class starts.
- ✓ **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

**Math Lab:** located in LARC 226. One of the services offered is FREE tutoring for your math class. Students raise their hands when they want to ask a tutor for assistance.

**SLO (Student Learning Outcome):** Students will be able to think analytically and read critically to solve intermediate algebra level mathematical problems

*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:

- |   |  |
|---|--|
| Last day to add/audit the class         | <b>Feb. 14, 2019</b>                                       |
| Drop the class <u>without</u> receiving | <b>"W" &amp; full Refund is Feb 18, 2019 (Online only)</b> |
| Drop the class <u>with</u> receiving    | <b>"W" is May 5, 2019</b>                                  |

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

# MATH 125 - CLASS SCHEDULE (Spring 2019)

Date	Topics	Nassimi Book		Sutcliffe Book	
		Ch.	Pages	Page	
Feb	04	Opening Remarks – Real No., Sets, Equation (1 Var.)	1	3 - 13	229-233 ; 341-345
	06	Inequalities, interval notation, absolute value	1	14 - 32	234-240 ; 346-355
	11	Rectangular Coordinate Sys., Slope of a Line	2	35 - 37	391-393
	13	Equation of Lines, Graph Linear Equation & Inequalities	2	38 - 62	385-390 ; 394-400
	18	<b>Holiday - No Class - President Day</b>			
	20	Solving Linear Equations (Elimination)	3	65 - 70	445-455
	25	Word Problem - Number, Geometry	4	93 - 118	478-487 ; 495-519
	27	Solving Linear Equations (Matrix Method)	3	71 - 79	456- 468
March	04	<b>Exam - 1 (Covers material studied from Feb. 6 - 27)</b>			
		Word Problem - Motion	4	133 - 140	529-542
	06	Solving Linear Equations (Determinant Method)	3	80 - 90	467-469
	11	Exponents laws ; Scientific Notation, Polynomials	5	161 - 165	06-22
	13	Binomial expansion & Polynomial Division	5	166 -190	23-38
	18	Factoring, Special Factoring	6	193 – 205	55-67
	20	Factoring review	6	205 -214	68-79
	25	Word Problem - Mixture, Coin, Investment	4	119 - 132	520-528
	27	<b>Exam - 2 (Covers material studied from March 1st – 22nd)</b>			
	Rational Exp. – Simplification, Multiplication, Division	7	217 - 218	87-112	
April	01	<b>Spring Break</b>			
	03				
	08				
	10	Radicals	8	237 - 256	151-197
	15	Radical review, Word Problem - Age	4	141 - 146	
	17	Complex Numbers	9	259 - 268	198-207
	22	Quadratic Equation	10	271 - 275	241-265
	24	<b>Exam - 3 (Covers material studied from March 27th to April 17th)</b>			
		Rational & Radical Equations	10	278 - 304	266-289
	29	Non-linear Inequalities and Absolute Value Inequalities	11	307 - 320	356-371
May	01	Functions	12	323 - 348	559-594
	06	Word Problem - Variation; Work	4	147 - 158	543-552; 595-601
	08	Logarithmic Functions	13	351 - 372	613-647
	13	Compound interest; Parabolas	13	357-358 276 - 277	655-658 ; 401-421
	15	<b>Exam - 4 (Covers material studied from April 19th to May 10th)</b>			
		Conic Section - Circle	10	375-376	422-425
	20	Conic Section - Ellipse & Hyperbola	14	377 - 396	426-434
	22	Arithmetic & Geometric Sequences and Series	15	399 - 410	659-677
	27	<b>Holiday - No Class - Memorial Day</b>			
29	<b>Review</b>				
June	03	<b>Final Exam (Comprehensive) – 40% New material covered after May 15 ; 60% Others</b>			

# 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
	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
	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)	456 - 468	5, 23, 32
	529-543	3, 7, 12, 17, 21, 27
	467-469	35, 38, 39, 40
	520-528	2, 5, 8, 11, 15, 18
	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

	Pages	Problem Numbers
Due Exam – 3 (20 pts)	68-70	3, 11, 20, 23
	71-79	7, 27, 39, 46, 54, 63, 70
	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
	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

Due exam – 4 (30 pts)	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
	356-366	3, 15, 29, 37, 47, 55, 69
	367-371	5, 18, 29, 33, 37
	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
	543-552	3, 6, 9, 13, 17, 20
	595-601	7, 10, 15, 21, 29
	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	

Due Final Exam (15 pts)	655 -658	72, 75, 77, 78
	401-406	3, 8, 14, 20, 27, 44
	407-416	1, 4, 7, 12, 15, 19, 24, 26, 39
	417- 421	27, 35, 45, 47
	421-425	3, 9, 14, 17, 24, 31, 34
	422-425	3, 9, 11, 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