

MATH 125 (Intermediate Algebra) – Prerequisite Math 115

Section - 3413 (MW 6:50 - 9:20 PM – MS 113) – Office Hours: MW 5:50 – 6:50 p.m.

Spring 2016 (Los Angeles Valley College)

Masoud Nassimi { Mbox # 703 ; nassimmm@lavc.edu ; V.M: (818) 947-2600 # 8184 }

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

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))
- 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. No text messaging, no MP3's, and no hand-held video games while class is in session. Class time is for learning, not for personal communication or entertainment.
- ✓ 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

*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	Feb. 20th
Drop the class <u>without</u> receiving	"W" & full Refund is Feb 22nd
Drop the class <u>with</u> receiving	"W" is May 10

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

MATH 125 - CLASS SCHEDULE (Spring 2016)

Date	Topics	Nassimi Book		Sutcliffe Book	
		Ch.	Pages	Page	
Feb	8	Opening Remarks – Real No., Sets, Equation (1 Var.)	1	3 - 9	229-233 ; 341-345
	10	Inequalities, interval notation, absolute value	1	10 - 19	234-240 ; 346-355
	15	Holiday - No Class - President Day			
	17	Rectangular Coordinate Sys., Slope of a Line	2	23 - 25	391-393
	22	Equation of Lines, Graph Linear Equation & Inequalities	2	26 - 40	385-390 ; 394-400
	24	Solving Linear Equations (Elimination)	3	43 - 45	445-455
	29	Word Problem - Number, Geometry	4	63 - 80	478-487 ; 495-519
March	02	Solving Linear Equations (Matrix Method)	3	46 - 50	456- 468
	07	Exam - 1 (Covers material studied from Feb. 8 - 29)			
		Word Problem - Motion	4	91 - 98	529-542
	09	Solving Linear Equations (Determinant Method)	3	51 - 59	467-469
	14	Word Problem - Mixture, Investment, coin	4	81 - 84	520-528
	16	Exponents laws ; Scientific Notation, Polynomials	5	113 - 119	06-22
	21	Binomial expansion & Polynomial Division	5	120 - 126	23-38
	23	Factoring, Special Factoring	6	133 - 140	55-67
	28	Factoring review	6	141 - 146	68-79
	30	Exam - 2 (Covers material studied from March 2nd - 23th)			
	Rational Exp. – Simplification, Multiplication, Division	7	149 - 150	87-112	
April	04	Spring Break			
	06	Spring Break			
	11	Rational Exp. – Add./Subt.; Complex fraction	7	151 - 156	113-136
	13	Rational Inequalities and Absolute Value Inequalities	7	161 - 165	356-371
	18	Word Problem - Age	4	97 - 99	
		Radicals	8	171 - 174	151-197
	20	Complex Numbers	9	174 - 190	198-207
	25	Exam - 3 (Covers material studied from March 28 to April 18)			
		Quadratic Equation	10	195 - 201	241-265
27	Rational Equations ; Radical Equations	10	205 - 207	266-289	
May	02	Functions	11	213 - 221	559-594
	04	Word Problem - Variation ; Work	4	101 - 110	543-552; 595-601
	09	Logarithm Properties	12	231 - 233	613-632
	11	Logarithmic Equation ; Compound interest	12	234 - 240	633-647
	16	Conic Section - Parabolas ; Circles	13	245 - 247	417-425
	18	Conic Section - Ellipse & Hyperbola	13	247 - 253	426-434
	23	Exam - 4 (Covers material studied from April 20 to May 11)			
		Arithmetic Sequences and Series	14	263 - 264	659-677
	25	Geometric Sequences and Series	14	264 - 266	659-677
	30	Holiday - No Class - Memorial Day			
June	01	Review			
	06	Final Exam (Comprehensive) – 40% New material covered after May 11 ; 60% Others			

***Class-works and Home-works
Due Dates***

Class-work Nassimi's Book	Due Date			
	Mon	Feb.	8	
	Wed		10	
	Mon		15	
Pages 7, 17	Wed		17	
	Mon		22	
Pages 30, 33, 39, 40	Wed		24	
Page 59 – Prob. # 1 (A – H) by elimination	Mon		29	
Pages 67, 73, 79	Wed	March	02	
Exam – 1 (HW Due from Sutcliffe Book)	Mon		07	
Page 59 – Prob. # 1 (A – G) by Matrix; Page 97	Wed		09	
Page 59 (prob. 1 A-H & 2 A – C) - by Determinant	Mon		14	
	Wed		16	
Pages 87, 89	Mon		21	
Pages 127 - 129	Wed		23	
Pages 141 - 146	Mon		28	
Exam - 2 (HW Due from Sutcliffe Book)	Wed		30	
Spring Break	Mon		April	04
	Wed	06		
Page 157	Mon	11		
Page 159	Wed	13		
Page 167	Mon	18		
Pages 99, 181	Wed	20		
Exam - 3 (HW Due from Sutcliffe Book)	Mon	25		
Pages 183, 191	Wed	27		
Pages 203, 209	Mon	02		
Page 223	Wed	04		
Pages 109	Mon	May	09	
	Wed		11	
Pages 237, 241	Mon		16	
Handout, page 255	Wed		18	
Exam - 4 (HW Due from Sutcliffe Book)	Mon		23	
Pages 257, 259	Wed		25	
	Mon		30	
Pages 267	Wed		June	01
Final Exam (HW Due from Sutcliffe Book)	Mon			06

MATH 125 – Assignment Sheet

Selected Homework Problems

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

	Pages	Problem Numbers
Due Exam – 1 (20 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
	467-469	35, 38, 39, 40
	529-543	3, 7, 12, 17, 21, 27
	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

	Pages	Problem Numbers
Due Exam – 3 (10 pts)	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
	520-528	2, 5, 8, 11, 15, 18

Due exam – 4 (40 pts)	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
	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 (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