

## SYLLABUS: MATH 193 – *Critical Thinking for Math* – Spring 2017, Section 502

**Instructor:** Cheryl Black

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**Phone:** 505-264-0766 (cell) 11:30am - 10:00pm Wed, Fri & Sat. only

**Office:** Academic Building, room 103, cubicle 12, phone: 925-8600

**Office Hours:** Office Hours: T/Th 11:00 – 11:30am (Math Center), or 2:45 - 3:10 pm (room C-108),  
Additional office hours by appointment

**Class Time & Location:** Tuesdays & Thursdays, 3:30 - 4:20 pm, Room C-108:

**Portfolio Due (final project):** Thursday, May 4, 2017, not later than 4:00pm (last day of class).\*

\* Note – Portfolio must be handed to me personally, not left in my office mailbox, unless you have made *prior* arrangements with me otherwise.

**Class Designators:** CRN – 36613, section – 502

### **Course Description:**

Math 193: Critical Thinking for Math (2 credits) will develop strategies for successful achievement in mathematics including developing academic skills as a foundation for college learning, employing critical thinking skills in problem solving, utilizing multiple problem-solving strategies & methods, developing a mathematical awareness of the world and expanding confidence in mathematical ability that will be valuable throughout a college career.

Placement: Math 193 is required of all students who place into Math 100.

Co-requisite: Math 100.

**Required Materials:** Implements for note taking and working problems. You may accommodate your own preferences for these materials.

### **Grades & Grading:**

#### Possible Grades:

A+ 98% +

A 93 – 97%

A- 90 – 92%

B+ 88 – 89%

B 83 – 87%

B- 80 – 82%

C+ 78 – 79%

C 73 – 77%

C- 70 – 72%

D 60 – 69%

F below 60%

#### Graded Categories:

Attendance & Participation 10%

In-class Projects & Oral Communication 20%

Homework & Written Communication 20%

Portfolio 50%

### **IMPORTANT DATES:**

Last date to drop without a grade (with refund): Friday, February 3, 2017

Spring Break: Monday thru Friday, March 13-17, 2017

Last date to drop without approval of Director of Student Affairs: Friday, April 14, 2017

Last day to drop with approval of the dean (or to change grading options): May 5, 2017

Final Project: Portfolio – Due Thursday, May 4, 2017, not later than 4:00pm (last day of class)

## SYLLABUS: MATH 193 – *Critical Thinking for Math* – Spring 2017, Section 502, cont'd

### Course Components:

#### Attendance & Participation: 10% of your grade

The student must be on-time and remain for the entire class session, and have the necessary course materials on hand. You ***will be marked absent*** if you are five or more minutes late, viewing or using a cell phone during class, viewing ANY internet content unless directed by the instructor, or you are disruptive to the learning environment. Each unexcused absence will reduce the attendance grade. If absent, the student must see the instructor in person, contact her by email or leave a phone message within 24 hours to change an unexcused absence to an excused absence. You may be required to provide third party proof of the legitimacy of your absence. Acceptance of an excuse is at the discretion of the instructor, and will only be granted if the student has spent an appropriate number of hours on the course leading up to and during the period of absence and has an unavoidable and legitimate reason for missing the class.

#### In-class Projects & Oral Communication: 20% of your grade

As a class or in small groups, we will discuss problem solving techniques, communication techniques and other related topics. In-class projects will include problems/games/other activities whereby we may apply these techniques and analyze our effectiveness (as a class or individually). Students will be asked to communicate (orally &/or in writing) with the class on these activities or analyses. Further instruction will be given for each project.

#### Homework & Written Communication : 20% of your grade

Students will be asked to write summaries or synopses of “in-class” activities to hand in for grading, or to be included in the student’s portfolio. Students will also be assigned homework activities and will write appropriate communication of these activities. Portfolio assignments will include a five-hundred-word, typed Mathematical Essay on an approved topic.

#### Portfolio: 50% of your grade

Portfolios are due the last day of class the week before finals week (Dec 3, 2015). **NO** late portfolios will be accepted. More details will be given as needed and as the semester progresses. Currently anticipated requirements are:

- Problem Write-Ups
- Homework Write-Ups &/or in-class assignments
- One Completed Exam Analysis (for Math 100 Midterm)
- Story of Maths Film Questionnaires
- Five-hundred-word, typed Mathematical Essay on an approved topic

## **SYLLABUS: MATH 193 – *Critical Thinking for Math* – Spring 2017, Section 502, cont'd**

### **Major Course Student Learning Outcomes:**

At the conclusion of the course, students will be able to:

- Develop academic skills as a foundation for college learning
- Employ critical thinking skills in problem solving
- Utilize multiple problem-solving strategies & methods
- Develop a mathematical awareness of the world
- Expand confidence in mathematical ability

**SUPPORT SERVICES:** The Learning Commons tutors are available Monday through Thursday from 8 am to 7 pm, and Fridays from 8 am to 2 pm {925-8907}. There are also open computer labs on campus for students' use. The Valencia Campus Library provides a quiet atmosphere for study and is an excellent resource for supplementary materials.

**EXPECTATIONS:** Students are expected to conduct themselves in a polite, courteous, professional and collegial manner. Cell phones must be set on silent. Cell phones must be turned off and be kept out of sight during exams. Only water (kept in a closed container) is allowed in the lab and classroom.

**DISABILITY STATEMENT:** If you have a documented disability, please provide me with a copy of your letter from Equal Access Services as soon as possible to ensure that accommodations are provided in a timely manner. The Equal Access Office can be reached at 925-8510.

**UNM'S POLICY ON ACADEMIC HONESTY:** Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, including dismissal, against any student who is found responsible for academic dishonesty. Any student who has been judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course. Academic dishonesty includes, but is not limited to, dishonesty in quizzes, tests or assignments, claiming credit for work not done or done by others; hindering the academic work of other students; and misrepresenting academic or professional qualifications within or outside the University.

**UNM'S POLICY ON GENDER DISCRIMINATION:** In an effort to meet obligations under Title IX, UNM Faculty, Teaching Assistants, and Graduate Assistants are considered "responsible employees" by the Department of Education. This designation requires that any report of gender discrimination which includes sexual harassment, sexual misconduct and sexual violence made to a faculty member, TA, or GA must be reported to the Title IX Coordinator at the Office of Equal Opportunity (oeo.unm.edu). For more information on the campus policy regarding sexual misconduct.

### Math 193 – Spring 2017 Calendar (dates are tentative)

Week Number	Tuesday		Thursday	
<b>1</b>	17-Jan	Introduction - Syllabus Over-View of Class Treasure Hunt assigned	19-Jan	Briefing: Developing Study Skills Learning Styles Inventory assigned
<b>2</b>	24-Jan	Math Anxiety Video & discussion	26-Jan	Developing a “Number Sense” <b>Treasure Hunt Due</b> <b>Learning Styles Inventory Due</b>
<b>3</b>	31-Jan	Number Sense Practice Mathematical Mindset	2-Feb	Group Dynamics & Working in Groups Math Explorations
<b>4</b>	7-Feb	Math Explorations & Problem Solving	9-Feb	Math Explorations Group Problem
<b>5</b>	14-Feb	Word Problems	16-Feb	Word Problems
<b>6</b>	21-Feb	Word Problems	23-Feb	Word Problem Practice
<b>7</b>	28-Feb	Group Problem	2-Mar	Group/ Individual Problems
<b>8</b>	7-Mar	Math Explorations	9-Mar	Group/ Individual Problems
<b>9</b>	14-Mar	<b>Spring Break</b> (no class)	16-Mar	<b>Spring Break</b> (no class)
<b>10</b>	21-Mar	Library Research Presentation	23-Mar	Discuss Essay & Portfolio
<b>11</b>	28-Mar	Essay Research <b>Topic Due</b>	30-Mar	Critical Thinking
<b>12</b>	4-Apr	Other Kinds of Thinking	6-Apr	Critical Thinking Application Group/ Individual Project
<b>13</b>	11-Apr	Work on Essay Portfolio Problems Assign		Work on Essay/Portfolio Problems <b>Essay Rough Draft Due</b>
<b>14</b>	18-Apr	Group Discussions on Problem Solving	20-Apr	Group/ Individual Project
<b>15</b>	25-Apr	Work on Portfolios	27-Apr	Work on Portfolios <b>Turn in Portfolio for pre-check</b> (optional)
<b>16</b>	2-May	M-100 Final Review	4-May	Final Review (M-100) <b>Portfolio Due</b>