



# University of New Haven

COLLEGE OF ARTS AND SCIENCES

Department of Mathematics and Physics

**Course:** MATH 1108 **Section:** \_\_\_\_\_ **Title:** College Math **Semester:** Spring 2019  
**Classroom:** \_\_\_\_\_ **Meeting Times:** \_\_\_\_\_  
**Instructor:** \_\_\_\_\_ **Office:** \_\_\_\_\_  
**Email:** \_\_\_\_\_ **Phone:** \_\_\_\_\_  
**Web:** \_\_\_\_\_  
**Office Hours:** \_\_\_\_\_

## MATH 1108 College Math Syllabus

### Catalog Description

Prerequisite: a grade of C (not C-) or higher in MATH 1103, or placement by the department. Topics include: algebraic expressions and equations, functions and graphs, linear inequalities, polynomials, exponential and logarithmic functions, matrices and systems, and basic elements of probability and statistics. 3 credits

**Note:** This class is taught through the **Math Zone** in North Hall. For additional information about the Math Zone, including options for acceleration or challenge exams, please contact **Yevgeniya Rivers**, Math Zone Director or **Matthew Griffiths**, Chair Department of Mathematics and Physics. Additional curriculum information and placement information can be found at **Math Physics News**

### Required Materials

There is no requirement to purchase the text. It is included in electronic form as part of the courseware. The included electronic text is *Preparation for College Math*, 1st ed, by Wright,D. Franklin, (2013).

### Accessing your course

Log into your course <http://www.hawkeslearning.com>

## Assessment Requirements for MATH 1108-01

Each student is assessed based on a computed point score from 0 to 100. The score is based on exams and lesson certfys as follows:

- Examinations:** 55% for five exams (100 pts each) and 20% for the Final Exam (all exams are 100 pts each) You must take the exam with your class as scheduled (or earlier). We recommend at least one DIY practice test with a score of 50% or higher before taking a chapter exam.
- Certify:** 25% for Certification of lessons achieved through the certify section. You are not required to complete all learn and practice problems but it is recommended that you spend more time in practice than in certify (unless you already know the material). While studying and completing practice problems, utilize the instructors and tutors for assistance. When you Certify you should do so without assistance treating it as a mini practice test. A late penalty will be assigned as follows:

1.	10.00	% penalty for up to	2	day(s) late
2.	20.00	% penalty for up to	4	day(s) late
3.	30.00	% penalty for up to	7	day(s) late
4.	50.00	% penalty for more than	7	day(s) late

3. **Attendance:** Active engagement in classwork and class discussion is an important part of this class. Attendance is recorded on Starfish after each class meeting. After 2 absences your Hawkes Learning account will be inactivated. You will have to come speak with either your instructor or the Math Zone director to have it reactivated. After 3 absences (excused or unexcused) your instructor has the right to drop you from the course.

4. Bonus Points: Up to 10 extra points will be awarded. See discussion of exam attempts for more details.

**Note:** Students who have been found to have violated the rules governing academic integrity will, at the very least receive a 0 grade on the paper or exam which was the source of the violation, and may be subject to further penalties as allowed by the University. All students who are suspected of having violated academic integrity requirements will be reported to the Dean of Students.

### Discussion of Exam Attempts

During the semester there are 4 chapter exams and a final; only 2 attempts per chapter are permitted. The score of the highest attempt will be used in calculating your grade. The first attempt must be taken with your class. All attempts must be completed by **Friday April 27th no later than 4pm**. The **Final Exam** is on Date: \_\_\_\_\_ (mm/dd/yy) at Time: \_\_\_\_\_ (am/pm).

Note: Only 1 attempt is allowed for the final exam.

All quizzes and exams are closed book and notes with only an approved scientific calculator allowed. The first attempt for chapter exams must be taken on or before the scheduled dates or the first attempt will be recorded as a zero (0).

### Bonus Points

Bonus points are awarded only in the case of each chapter test first attempt as follows: For a point score of 75–87.5 you will earn one bonus point toward your Total Points Score (TPS). For a point score of 87.5–100 you will earn two points. Therefore you may earn up to 10 bonus points toward your final TPS.

### Scoring and Course Grades

The letter grade is based on the student's Total Points Score (TPS) for the semester. The class letter grade is assigned based on

TPS	Grade	TPS	Grade
97.5 - > 100.0	A +	72.5 - 77.5	C
92.5 - 97.5	A	70.0 - 72.5	C -
90.0 - 92.5	A -	67.5 - 70.0	D +
87.5 - 90.0	B +	63.0 - 67.5	D
82.5 - 87.5	B	60.0 - 63	D-
80.0 - 82.5	B -	0 - 60	F
77.5 - 80.0	C +		

An INC or a W grade is assigned based on Department, College and University expectations and policies as outline starting on page 5. Please read through these guidelines carefully.

## Course Goals and Learning Outcomes

College Math is designed to develop a working knowledge of algebra, functions, probability and elementary statistics. Proficiency in algebra is a pre-requisite to success in further mathematics courses. This course will prepare you for College Algebra.

The Learning Outcomes for Math 1108 are:

1. Solve equations of various types CC3.1.1

2. Explain linear models and graphs
3. Describe basic functions such as polynomials and rational functions CC3.1.1
4. Identify operations on sets CC3.1.2
5. Make sense of elementary probability problems CC3.1.3
6. Calculate elementary statistical concepts CC3.1.1

Students will also achieve the following Core Learning Objectives:

7. the student will be able to apply mathematical concepts and principles to solve problems;
8. differentiate among multiple representations of mathematical information; and
9. assess mathematical reasonableness and consistency.

### Required curriculum content

All sections of MATH 1108 College Math will cover, as a minimum, the material from *Preparation for College Math*, 1st ed, by Wright, D. Franklin, (2013).

Sec	Textbook Topic	Lesson Date	Certify	Percentage
		Subject to change	Due	Of Grade
	<b>Chapter 5 &amp; 6 – Linear Functions</b>			
5.3a	Solving Linear Equations Using Addition and Subtraction	1/15	1/18	0.42 %
5.3b	Solving Linear Equations Using Multiplication and Division	1/15	1/18	0.42 %
5.4	Solving Linear Equations: $ax + b = c$	1/15	1/21	0.42 %
5.5	Solving Linear Equations: $ax + b = cx + d$	1/15	1/21	0.42 %
5.6	Introduction to Problem Solving	1/22	1/25	0.42 %
6.1	The Cartesian Coordinate System	1/22	1/25	0.42 %
6.2	Graphing Linear Equations in Two Variables: $ax + by = c$	1/22	1/28	0.42 %
6.3	The Slope- Intercept Form: $y = mx + b$	1/22	1/28	0.42 %
6.4a	Finding the Equation of a Line	1/29	2/1	0.42 %
6.4b	Graphing Linear Equations in Point-Slope Form	1/29	2/1	0.42 %
6.5a	Solving Linear Inequalities	1/29	2/4	0.42 %
6.5b	Graphing Linear Inequalities	1/29	2/4	0.42 %
6.6	Introduction to Functions and Function Notation	2/5	2/8	0.42%
	Chapter 6 Review	Ind study	2/8	0.42 %
	<b>Chapter 5 &amp; 6 Exam</b>	<b>Date</b>		11%
	<b>Chapter 7 –Exponents and Polynomials</b>			
7.1a	Simplifying Integer Exponents I	2/5	2/11	0.42 %
7.1b	Simplifying Integer Exponents II	2/5	2/11	0.42 %
7.2	Introduction to Polynomials II	2/12	2/15	0.42 %
7.3	Addition and Subtraction with Polynomials	2/12	2/15	0.42 %
7.4	Multiplication with Polynomials	2/12	2/18	0.42 %
7.5a	The FOIL Method	2/12	2/18	0.42 %
7.5b	Special Products	2/19	2/22	0.42 %
7.6a	Division by a Monomial	2/19	2/22	0.42 %
7.6b	Greatest Common Factor of Two or More Terms	2/19	2/25	0.42 %
7.6c	Greatest Common Factor of a Polynomial	2/19	2/25	0.42 %
7.6d	Factoring Expressions by Grouping	2/26	3/1	0.42 %
7.7	Factoring Trinomials: $x^2 + bx + c$	2/26	3/1	0.42 %
7.8a	Factoring Trinomials by Trial and Error	2/26	3/1	0.42 %
7.8b	Factoring Trinomials by Grouping	2/26	3/4	0.42 %
7.9a	Special Factorizations: Squares	2/26	3/4	0.42 %

Sec	Textbook Topic	Lesson Date Subject to change	Certify Due	Percentage Of Grade
7.10	Solving Quadratic Equations by Factoring	3/5	3/8	0.42%
7.11	Applications of Quadratic Equations	3/5	3/8	0.42 %
	Chapter 7 Review	ind study	3/8	0.42%
	<b>Chapter 7 Exam</b>	<b>Date</b>		11%
	<b>Chapter 12 – Quadratic Functions</b>			
12.2a	Quadratic Equations: Square Rt Method	3/5	3/15	0.42 %
12.2b	Quadratic Equations: Completing the square	3/5	3/15	0.42 %
12.3	Quadratic Equations: The Quadratic Formula	3/19	3/25	0.42 %
12.4	Applications: Quadratic Equations	3/26	3/29	0.42 %
12.5	Graphing Parabolas	3/26	3/29	0.42 %
	<b>Chapter 9 – Radicals</b>			
9.1	Evaluating Radicals	3/26	3/29	0.42%
9.2	Simplifying Radicals	3/26	3/29	0.42%
9.3	Rational Exponents	4/2	4/2	0.42 %
9.4a	Addition and Subtraction with Radicals	4/2	4/3	0.42 %
9.4b	Multiplication with Radicals	4/2	4/5	0.42 %
9.4c	Rationalizing Denominators	4/2	4/5	0.42 %
9.5	Solving Radical Equations	4/2	4/8	0.42 %
9.6	Functions with Radicals	4/2	4/8	0.42 %
	Chapter 9 Review	ind study	4/8	0.42 %
	<b>Chapter 9 Exam</b>	<b>Date</b>		11%
	<b>Chapter 10 – Exponential and Log Functions</b>			
10.1	Algebra of Functions	4/9	4/12	0.42 %
10.3	Exponential Functions	4/9	4/12	0.42 %
10.4	Logarithmic Functions	4/9	4/15	0.42 %
10.5	Properties of Logarithms	4/16	4/17	0.42 %
10.6	Common Logarithms and Natural Logarithms	4/16	4/19	0.42 %
10.7	Exponential and Logarithmic Equations	4/16	4/19	0.42 %
	Chapter 10 Review	ind study	4/19	0.42 %
	<b>Chapter 10 Exam</b>	<b>Date</b>		11%
	<b>Viewing Life Mathematically - Chapters 2, 7 – Sets and Probability</b>			
2.1	Set Notation	4/23	4/29	0.42 %
2.2	Subsets and Venn Diagrams	4/23	4/29	0.42 %
2.3	Operations with Sets	4/23	4/29	0.42 %
2.4	Applications and Survey Analysis	4/23	4/29	0.42 %
7.1	Introduction to Probability	4/30	5/3	0.42 %
7.4	Addition and Multiplication Rules of Probability	4/30	5/3	0.42 %
	<b>Viewing Life Mathematically Exam</b>	<b>Date</b>		11%

### Academic Calendar for Spring 2019

Spring 2019 classes start on Monday, August 27 and end on Wednesday, December 19. The last day to drop classes without any financial penalty is Tuesday, December 4, and the last day to withdraw from the class, i.e., to request a **W** grade is Tuesday, October 30. Semester holidays are on: Labor Day: Sept 3; Fall Break: Sunday-Tuesday, Oct 21 - 23; Thanksgiving: Wednesday-Sunday, Nov 21-25 .

The undergraduate academic calendar for this semester is located at <http://www.newhaven.edu/academics/schedules-registration/academic-calendar-2017-2018.php>, and the dates for final exams can be found at <https://mycharger.newhaven.edu/web/mycharger/final-exam-schedule>. A summary of important dates is found at <http://www.newhaven.edu/academics/calendar>.

### **Further Considerations and Rules**

- *Electronic devices:* The use of phones and electronic devices, except in an emergency or unless otherwise approved by the instructor, is disallowed in class. The use of any electronic device, except those explicitly approved for use during any exam, will result in grade of 0 on that exam. If in doubt, please inquire prior to using any electronic device.
- *Scheduling conflicts:* It is the student's responsibility to contact the instructor concerning any scheduling conflicts which may result in late papers, or other scheduling conflicts, e.g., an absence for an exam.

## Department, College and University Expectations and Policies

It is important that students familiarize themselves with a range of policies and guidelines that have been established by the Department of Mathematics and Physics, the College of Arts and Sciences, and the University of New Haven. These are an integral part of the syllabus for this course.

### Adding/Dropping a Class

The final day to drop this course without it appearing on your transcript is discussed on the [Academic Schedules and Registration](#) web page. After the first week of class, self-service registration will not be enabled for students to directly add or drop classes. Students should contact the Registrar's office directly or the Academic Success Center for assistance with adding and dropping courses during this time.

### Attendance Regulations

University attendance policy guidelines require that:

Students are expected to attend regularly and promptly all their classes, appointments, and exercises. While the university recognizes that some absences may occasionally be necessary, these should be held to a minimum. A maximum of two weeks of absences will be permitted for illness and emergencies. The instructor has the right to dismiss from class any student who has been absent more than the maximum allowed. A dismissed student will receive a withdrawal (**W**) from the course if they are still eligible for a withdrawal per the university Withdrawal from a Course policy, or a failure (**F**), if not. A student who is not officially registered in the course is not permitted to attend classes or take part in any other course activities. Students absent from any class meeting are responsible for making up missed assignments and examinations at the discretion of the instructor.

Students are to adhere to the policy attendance policy guidelines outlined in the University Catalog under the heading, *Attendance Regulations*, found online in the [Undergraduate Catalog](#) or alternatively found in the [Student Handbook](#) on pp. 48–49.

### Religious Observance Policy for Students

The University of New Haven respects the right of its students to observe religious holidays that may necessitate their absence from class or from other required university-sponsored activities. Students who wish to observe such holidays should not be penalized for their absence, although in academic courses they are responsible for making up missed work. The College provides that,

Instructors should try to avoid scheduling exams or quizzes on religious holidays, but where such conflicts occur should provide reasonable accommodations for missed assignment deadlines or exams. If a class, an assignment due date, or exam interferes with the observance of such a religious holiday, it is the student's responsibility to notify their instructor, preferably at the beginning of the term, but otherwise at least two weeks before the holiday.

More information about religious observance policies can be found in the Student Handbook on pp. 48–49 under the heading, *Attendance Policies: Religious Observance Policy for Students*.

### Withdrawal from a Course

Students wishing to withdraw must submit a request for an official course withdrawal in writing using the online [Course Withdrawal Form](#), or alternatively complete and hand in the pdf based [Course Withdrawal Form](#). The final date to request a withdrawal is listed in the [Academic Calendar](#). This request must be submitted to the Registrar's Office and signed by the International Office if you are an international student. The grade of **W** will be recorded, but the course will not affect the GPA.<sup>1</sup>

### Incomplete Grade Policy

A grade of Incomplete (**INC**) is given only in special circumstances and indicates that the student has been given permission by the instructor to complete required course work (with the same instructor) after the end

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<sup>1</sup>Please note that it is the responsibility of the student to assure that the required paperwork and documentation is completed by the deadline.

of the term. In the absence of the instructor a student should contact the Department Chair. Students need to examine carefully the **changed guidelines** pertaining to **INC** grades, specifically:

To remove the **INC** grade, the student must complete all required course work in timely fashion as stipulated by the instructor but no later than the end of the following term. Fall and intersession course incomplete grades must be completed no later than the last day of the spring term. Spring and summer course incomplete grades must be completed no later than the last day of the fall term.

If the course work is not submitted within the allotted time, the **INC** grade will be changed to an **F** shortly after the deadline by the Office of the University Registrar. Students will be notified via campus email at least two weeks prior to the change of grade process.

The University policy on incomplete grades is discussed in the **Academic Catalog** under the heading, *Incomplete (INC) Grade Policy*.

### **Academic Integrity Policy and Procedures**

The University of New Haven expects its students to maintain the highest standards of academic conduct. Academic dishonesty is not tolerated at the University. To know what it is expected, students are responsible for reading and understanding the statement regarding academic honesty in the Student Handbook. Specifically, students are required to adhere to the Academic Integrity Policies specified in the **Student Handbook**, i.e., on **pp. 66–73**.

Please ask your instructor about their expectations regarding permissible or encouraged forms of student collaboration if there is any confusion about this topic. The Department of Mathematics and Physics fully adheres to the Academic Integrity Policy:

Academic integrity is a core university value that ensures respect for the academic reputation of the University, its students, faculty and staff, and the degrees it confers. The University expects that students will conduct themselves in an honest and ethical manner and respect the intellectual work of others. Please be familiar with the University's policy on Academic Integrity. Please ask about expectations regarding permissible or encouraged forms of student collaboration if they are unclear.

### **Coursework Expectations**

This course will require significant in-class and out-of-class commitment from each student. The University estimates that a student should expect to spend two hours outside of class for each hour they are in a class. For example, a three credit course would average six [6] hours of additional work outside of class.<sup>2</sup> Coursework expectations are detailed in the **Academic Catalog** under the heading, *Course Work Expectations*.

Please note, that MATH 1108 is a 3-credit course, and as such requires a total of 9 hours per week invested in study and homework for the average student.

### **Commitment to Positive Learning Environment**

The University adheres to the philosophy that all community members should enjoy an environment free of any form of harassment, sexual misconduct, discrimination, or intimate partner violence. If you have been the victim of sexual misconduct we encourage you to report this. If you report this to a faculty/staff member, they must notify our college's Title IX coordinator about the basic facts of the incident (you may choose to request confidentiality from the University). If you encounter sexual harassment, sexual misconduct, sexual assault, or discrimination based on race, color, religion, age, national origin, ancestry, sex, sexual orientation, gender identity, or disability please contact the Title IX Coordinator, Caroline Koziatek at (203)-932-7479 or **CKoziatek@newhaven.edu**. Further online information about is available at **Title IX**.

### **Reporting Bias Incidents**

At the University of New Haven, there is an expectation that all community members are committed to creating and supporting a climate which promotes civility, mutual respect, and open-mindedness. There also exists an understanding that with the freedom of expression comes the responsibility to support community

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<sup>2</sup>Please note that study guidelines are important, i.e., there is substantial evidence that shows that the pass rates for students in math courses decrease dramatically as the time spent on outside study falls below 2 hours of homework per credit per week.



members' right to live and work in an environment free from harassment and fear. It is expected that all members of the University community will engage in anti-bias behavior and refrain from actions that intimidate, humiliate, or demean persons or groups or that undermine their security or self-esteem.

If you have witnessed or are the target of a bias-motivated incident, please contact the Office of the Dean of Students at 203-932-7432 or Campus Police at 203-932-7014. Further information about this and other reporting options may be found at **Report It**.

## University Support Services

The University recognizes students often can use some help outside of class and offers academic assistance through several offices. In addition to discussing any academic issues you may have with your instructor, advisor, or with the the courses or department coordinator or chair, the University provides these additional resources for students:

### The Center for Academic Success and Advising (CASA)

The **Academic Success Center** is located in Maxcy 208 for help with your academic studies, or call 203-932-7234 to set up an appointment.

### University Writing Center

The mission of the Writing Center (an expansion of the **Writer to Writer** peer-tutoring program) is to provide high-quality tutoring to undergraduate and graduate students as they write for a wide range of purposes and audiences. Tutors are undergraduate and graduate students and they work with students at any stage in the writing process; Bring in your assignment, your ideas, and any writing done so far. To make an appointment, register for an account at <https://newhaven.mywconline.com>.

### The Math Zone

Please contact the **Math Zone** if you wish to challenge your Math Placement by taking a Math Challenge Exam or by taking a Math Post Placement Exam. These are discussed more extensively at [http://math.newhaven.edu/mathphysics/placement\\_html](http://math.newhaven.edu/mathphysics/placement_html). The Math Zone also provides a range of tutoring and classroom support service for students taking development math classes.

### The Center for Learning Resources (CLR)

The **Center for Learning Resources** located in Peterson Library, provides academic content support to the students of the University of New Haven using metacognitive strategies that help students become aware of and learn to apply optimal learning processes in the pursuit of creating independent learners CLR tutors focus sessions on discussions of concepts and processes and typically use external examples to help students grasp and apply the material.

### Accessibility Resources Center

Students with disabilities are encouraged to share, in confidence, information about needed specific course accommodations. The **Accessibility Resources Center** (ARC) provides comprehensive services and support that serve to promote educational equity and ensure that students are able to participate in the opportunities available at the University of New Haven. Accommodations cannot be made without written documentation from the ARC. The ARC is located on the ground floor in the rear of Sheffield Hall. Sheffield Hall is located in the Residential Quad area, and can be contacted at 203-932-7332. The ADA/Section 504 Compliance Officer is Rebecca Johnson, [RJohnson@newhaven.edu](mailto:RJohnson@newhaven.edu), and can be reached by phone at 203-932-7238. Information on the ARC can be found at



## **Counseling and Psychological Services**

The Counseling Center offers a variety of services aimed at helping students resolve personal difficulties and acquire the balance, skills, and knowledge that will enable them to take full advantage of their experience at the University of New Haven. Information about the, **Counseling and Psychological Services**, is available online.