HB5 College Prep Course Mathematics Breakout

HB5 Survey

Access To Course Materials

https://www.esc19.net/

Gear Up

House Bill 5

House Bill 5

HB5 Math College Prep Course

HB5 English College Prep Course

Other Resources & Updates

Approved Course Resources

Textbook Options

Textbook Option 1: Martin-Gay, Elayn, 2017. Beginning & Intermediate Algebra, Pearson Education 6th Edition. ISBN: 978-0134-19309-0

Textbook Option 2: Marecek, L., & Honeycutt Mathis, A. (2020). Intermediate Algebra (2 ed.). Houston, TX: OpenStax. Retrieved from https://openstax.org/details/books/intermediate-algebra-2e

and

Marecek, L., & Honeycutt Mathis, A. (2020). Prealgebra (2 ed.). Houston, TX: OpenStax. Retrieved from https://openstax.org/details/books/prealgebra-2e

Textbook Option 1: Martin Gay and MyMathLab

RESOURCES

MATH COLLEGE PREP COURSE SEMESTER I RESOURCE NOTEBOOK REVISED 05/23/2019

MATH COLLEGE PREP COURSE SEMESTER II RESOURCE NOTEBOOK REVISED 9/23/2019

MY MATH LAB HELP

MYMATHLAB - HOW TO CREATE A COURSE

MYMATHLAB - HOW TO CREATE A HOMEWORK

MYMATHLAB- INSTRUCTOR RESOURCES

Blanca Lopez

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Textbook Option 2: OER NOTEBOOK & MyOpen Math

2020 COLLEGE PREP MATH NOTEBOOK

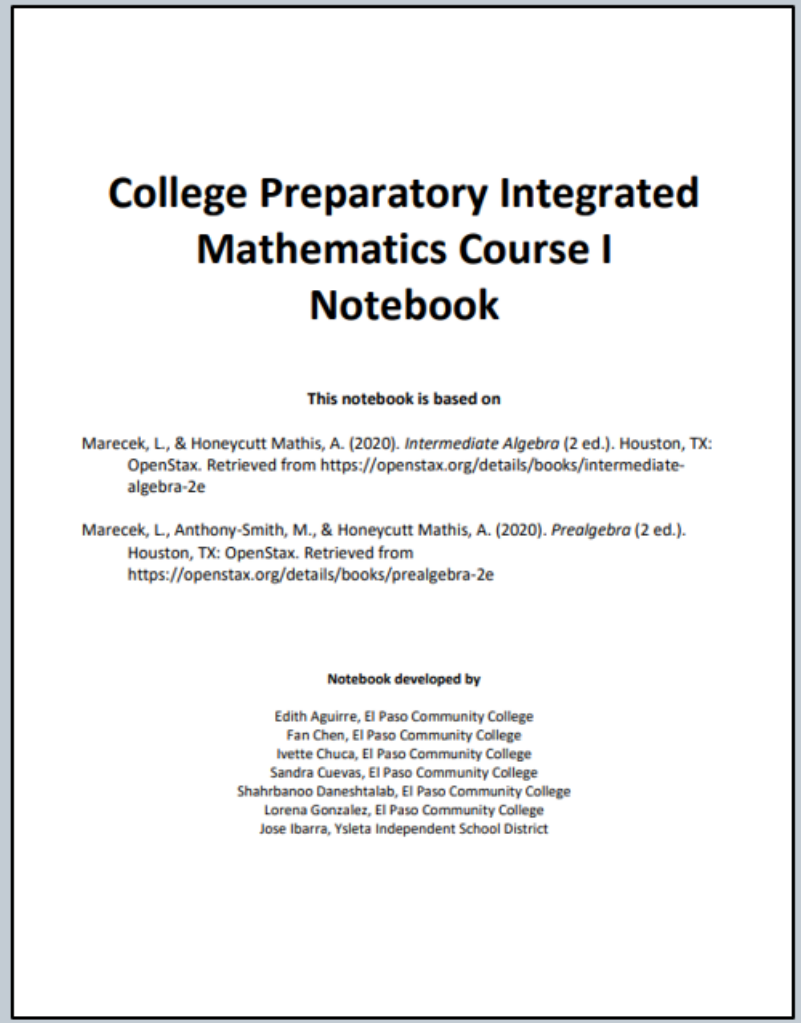
Based on OER textbooks available on

https://openstax.org/

Extra practice problems available after each section.

Homework system:

https://www.myopenmath.com/



College Preparatory Integrated Mathematics Course I Notebook

This notebook is based on

Marecek, L., & Honeycutt Mathis, A. (2020). *Intermediate Algebra* (2 ed.). Houston, TX: OpenStax. Retrieved from https://openstax.org/details/books/intermediate-algebra-2e

Marecek, L., Anthony-Smith, M., & Honeycutt Mathis, A. (2020). *Prealgebra* (2 ed.). Houston, TX: OpenStax. Retrieved from https://openstax.org/details/books/prealgebra-2e

Notebook developed by

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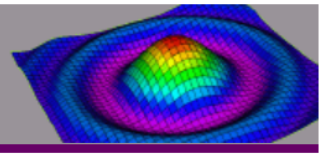
Signing Up for MyOpenMath

myOpenMath

Welcome | Student Self Study | For Instructors | LTI | About Us

Welcome



Free and Open

Students

Are you a student looking to study mathematics on your own, and want to do exercises with immediate feedback as you work through a free and open textbook? Then read more about our self study courses.

Instructors

Are you an instructor who wants to adopt an open textbook, who feels online interactive homework is valuable, but doesn't want their students to have to pay an additional fee? Then read more about using MyOpenMath in the classroom.

Getting Started

If you already have an account, you can log on using the box to the right.

If you are a new student to the system, register as a new student

If you are an instructor, you can request an instructor account

Login Error. Try Again

Login

Username:

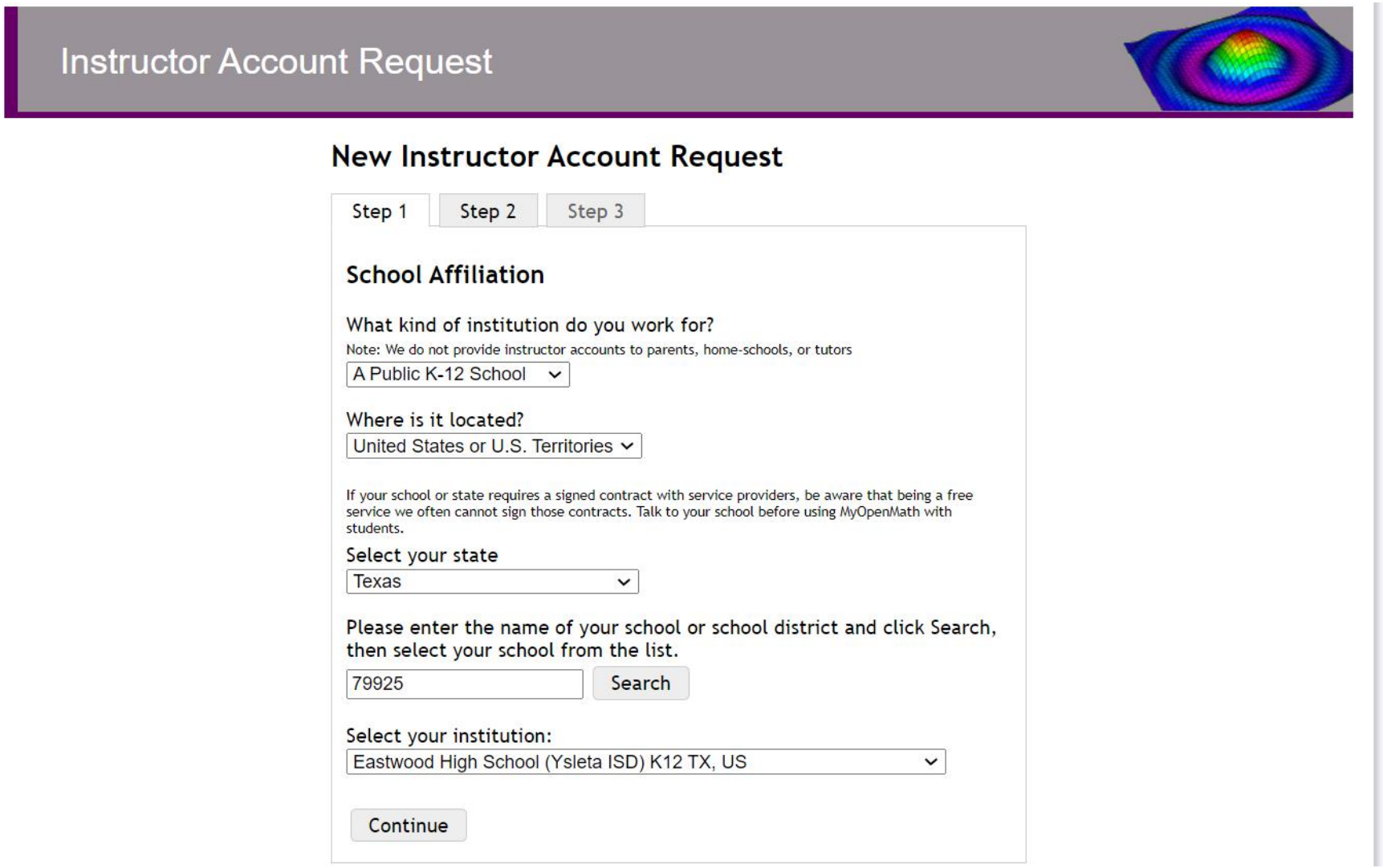
Password:

Login

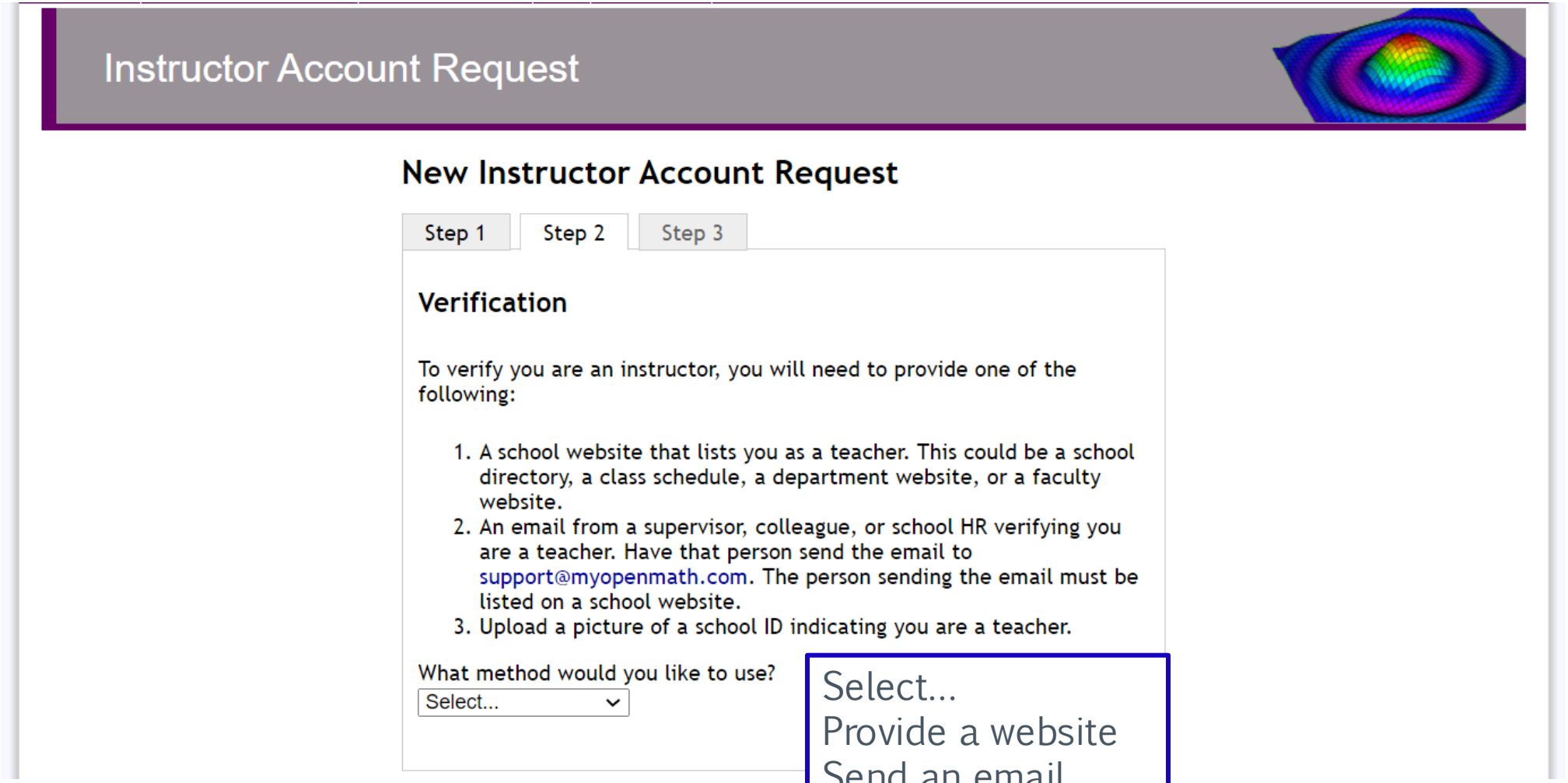
Register as a new student

Forgot Password
Forgot Username

Signing Up for MyOpenMath



Signing Up for MyOpenMath



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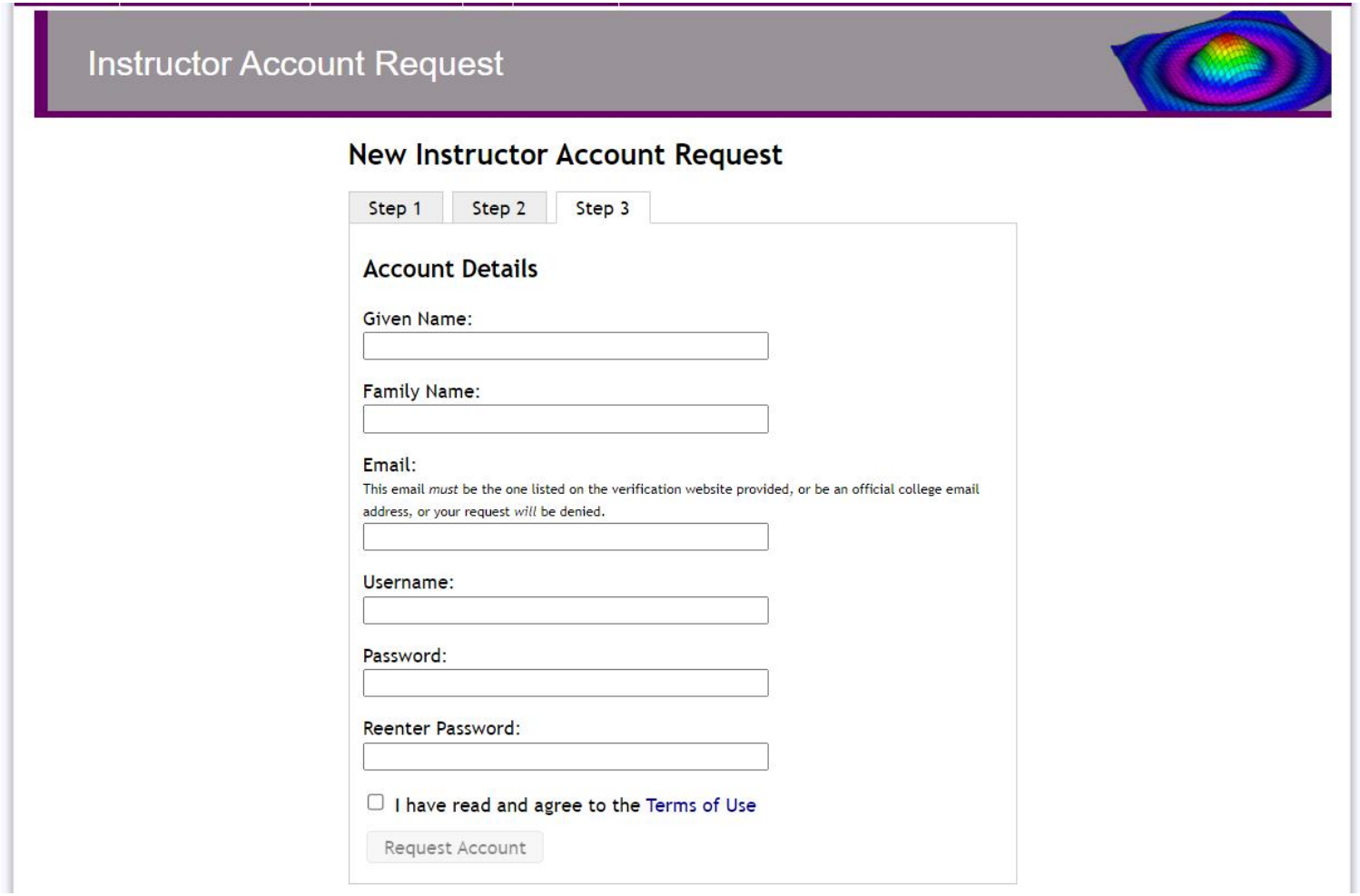

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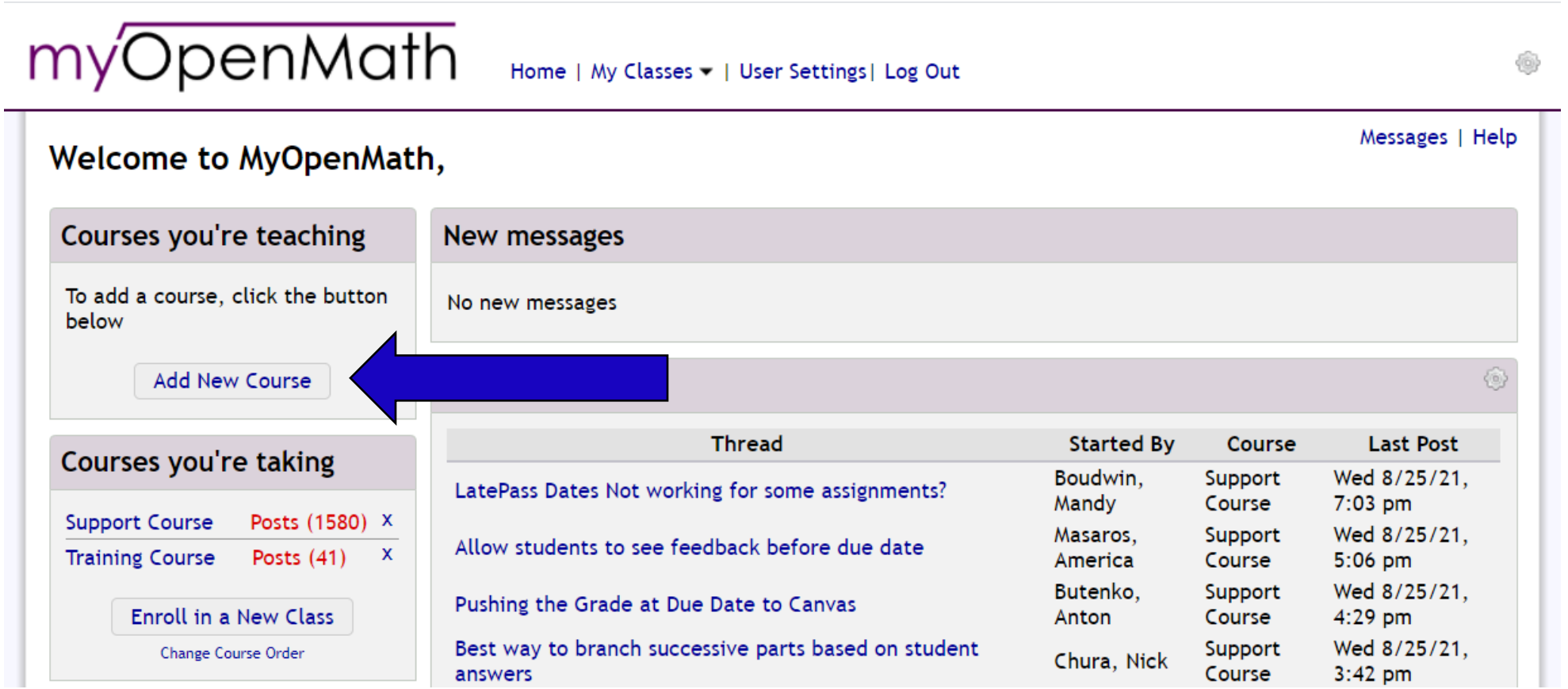

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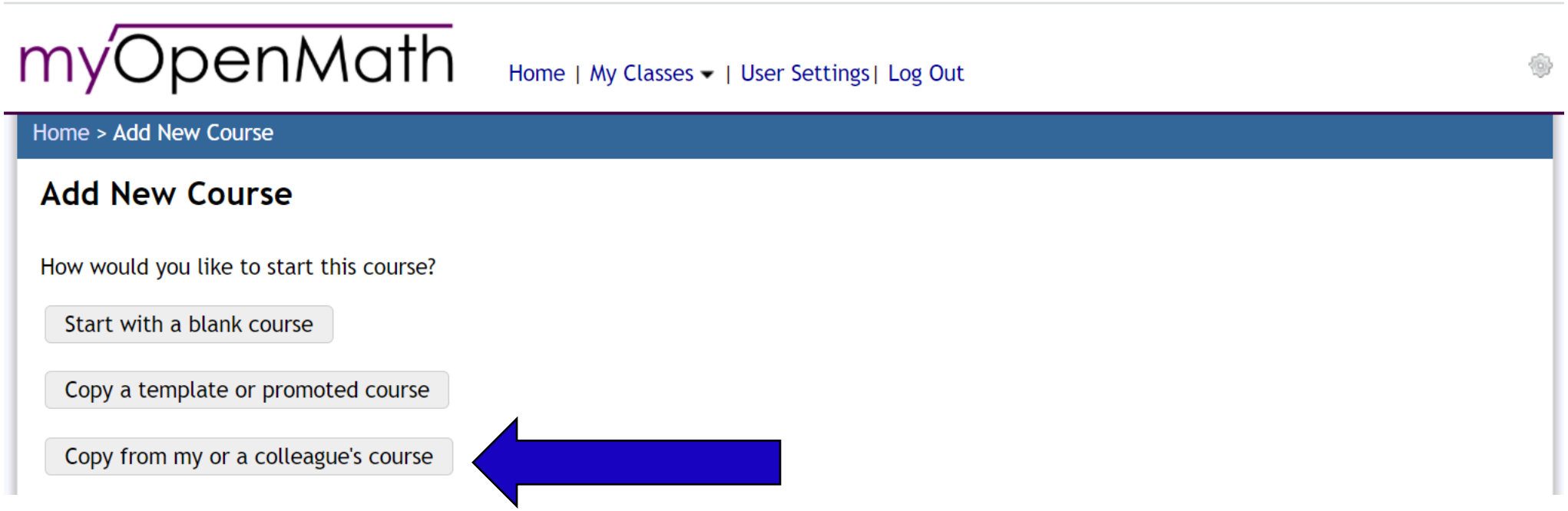

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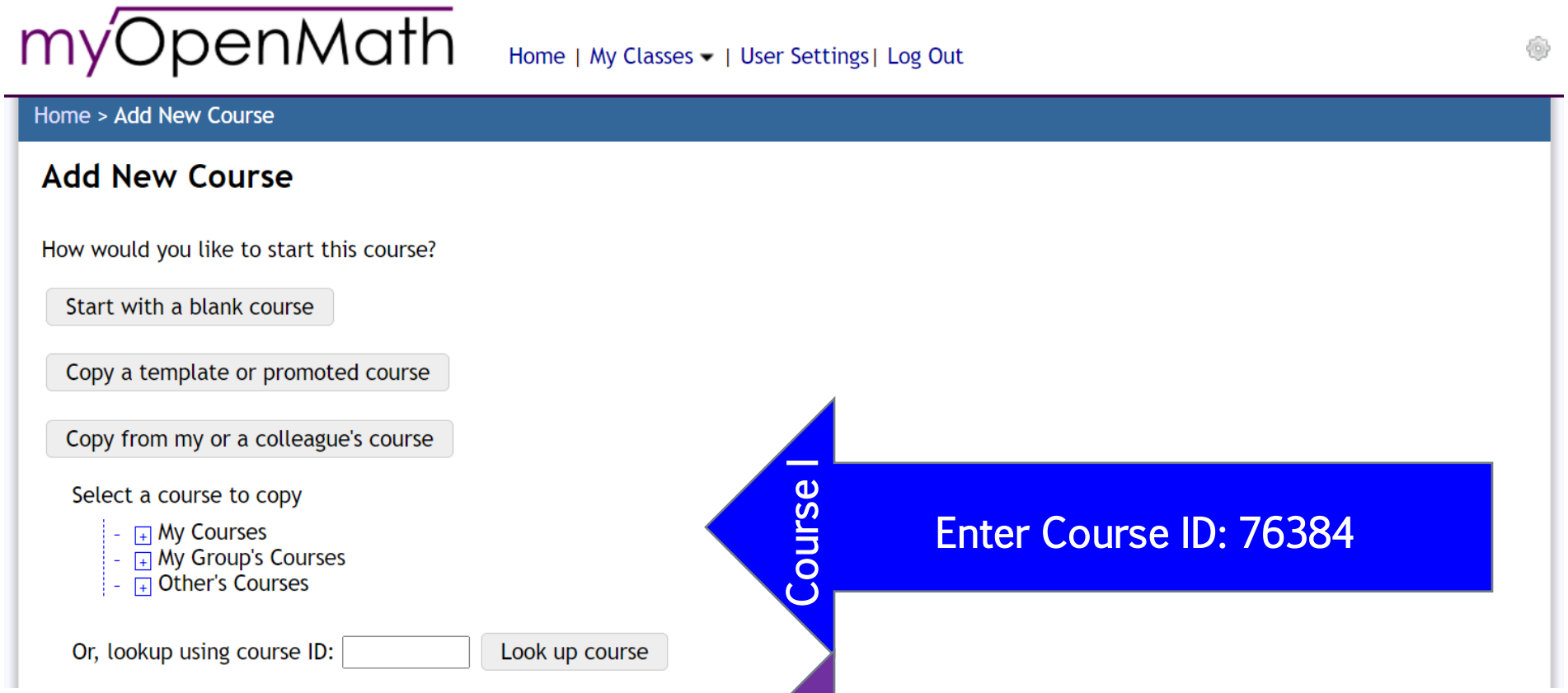

Course I

Enter Course ID: 76384

Course II

Enter Course ID: 79825

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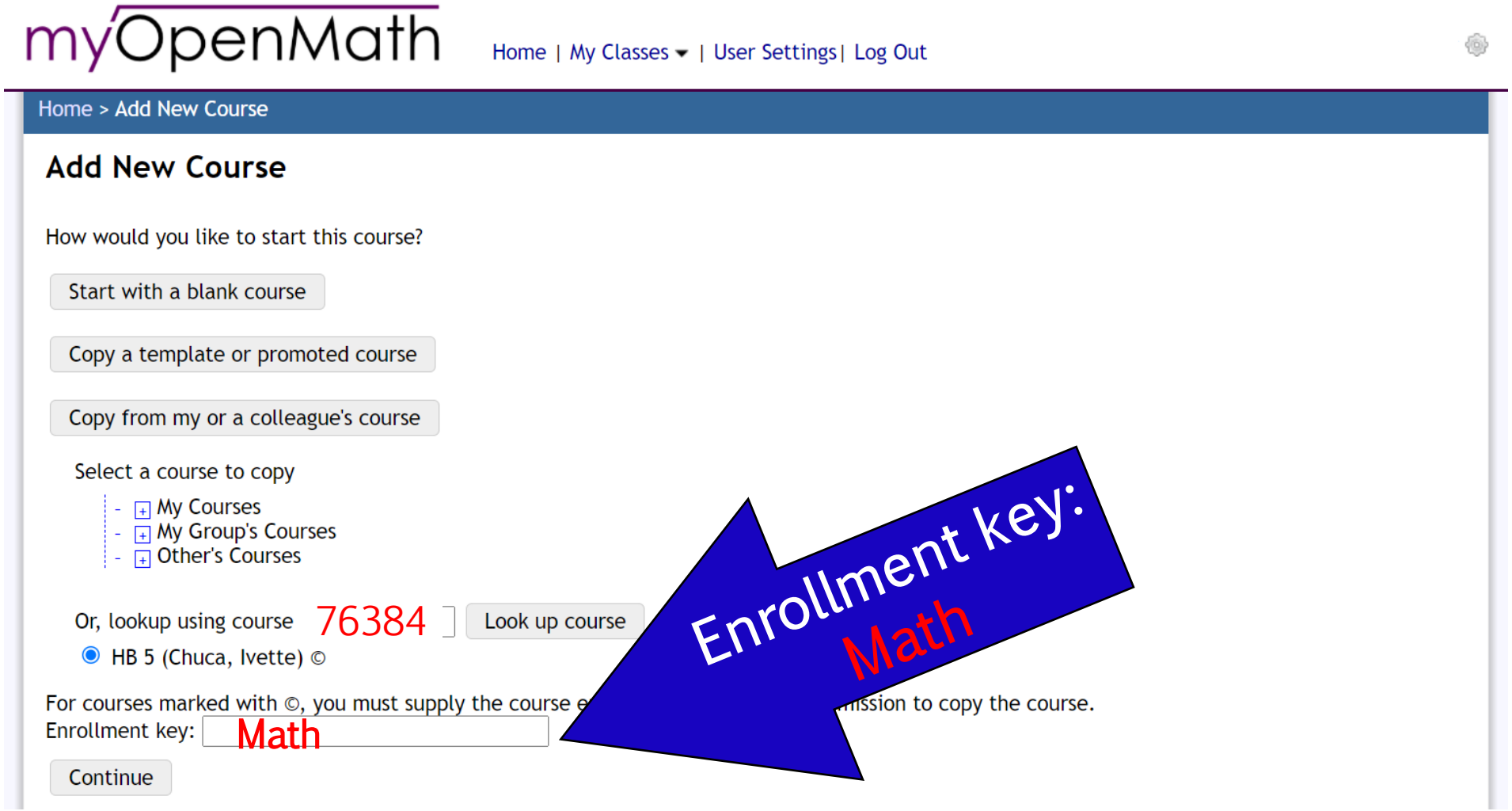

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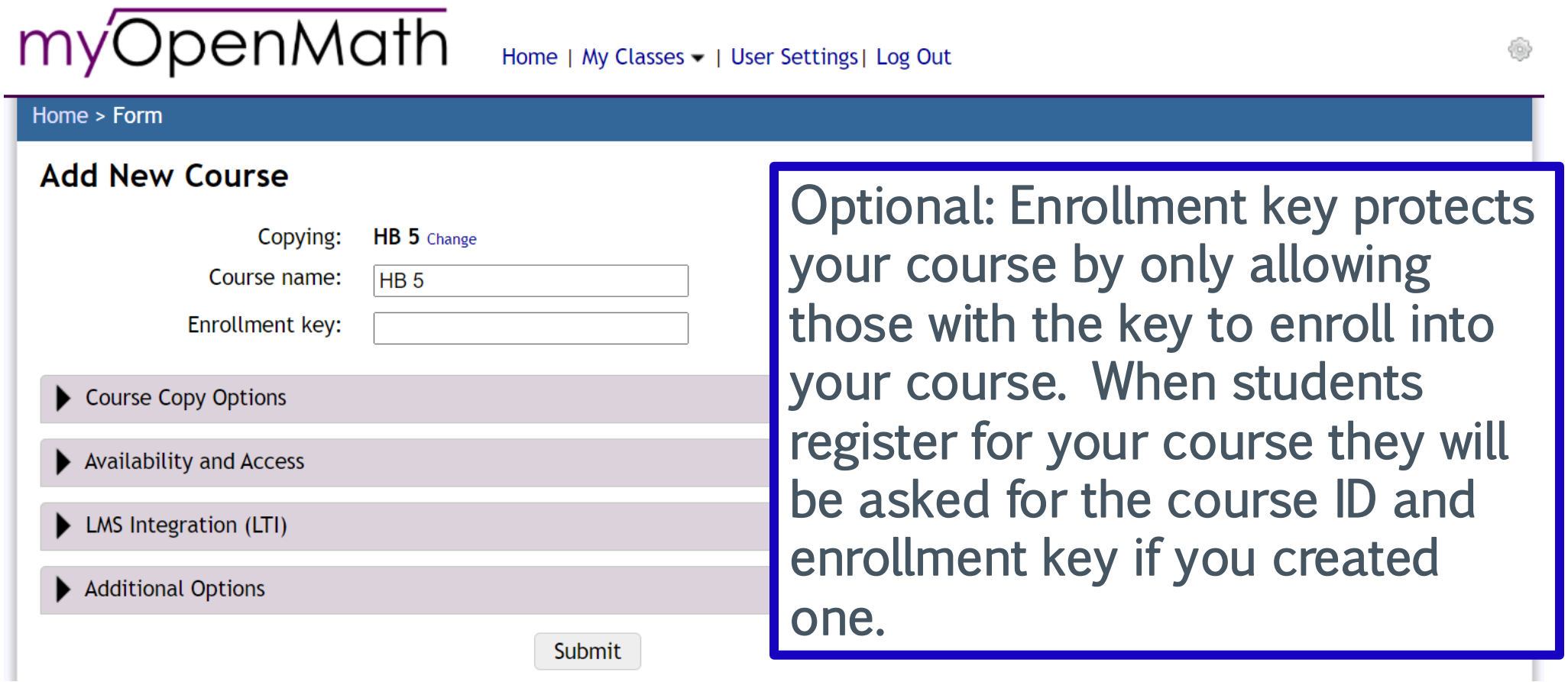

Optional: Enrollment key protects your course by only allowing those with the key to enroll into your course. When students register for your course they will be asked for the course ID and enrollment key if you created one.

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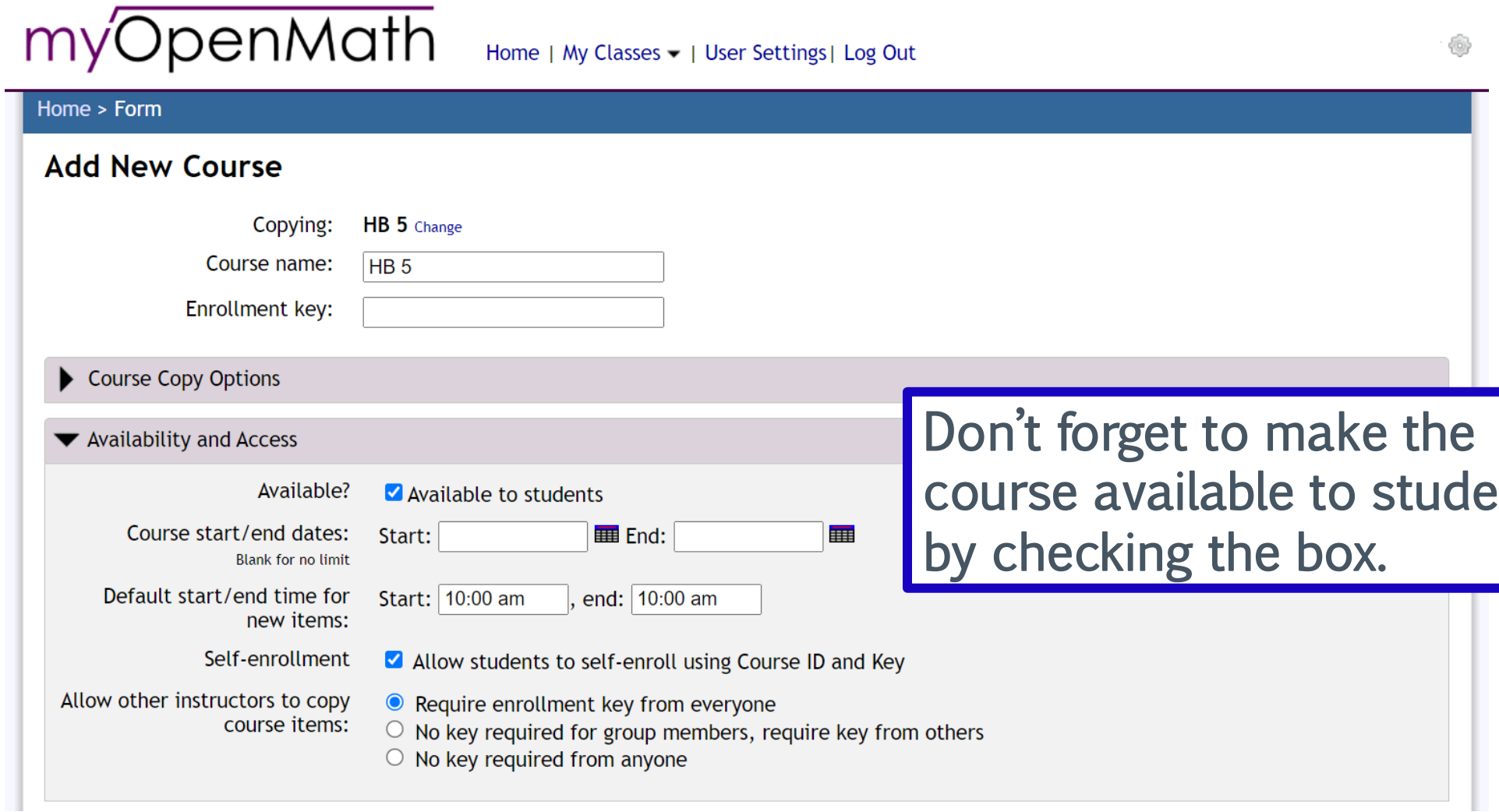

Don't forget to make the course available to students by checking the box.

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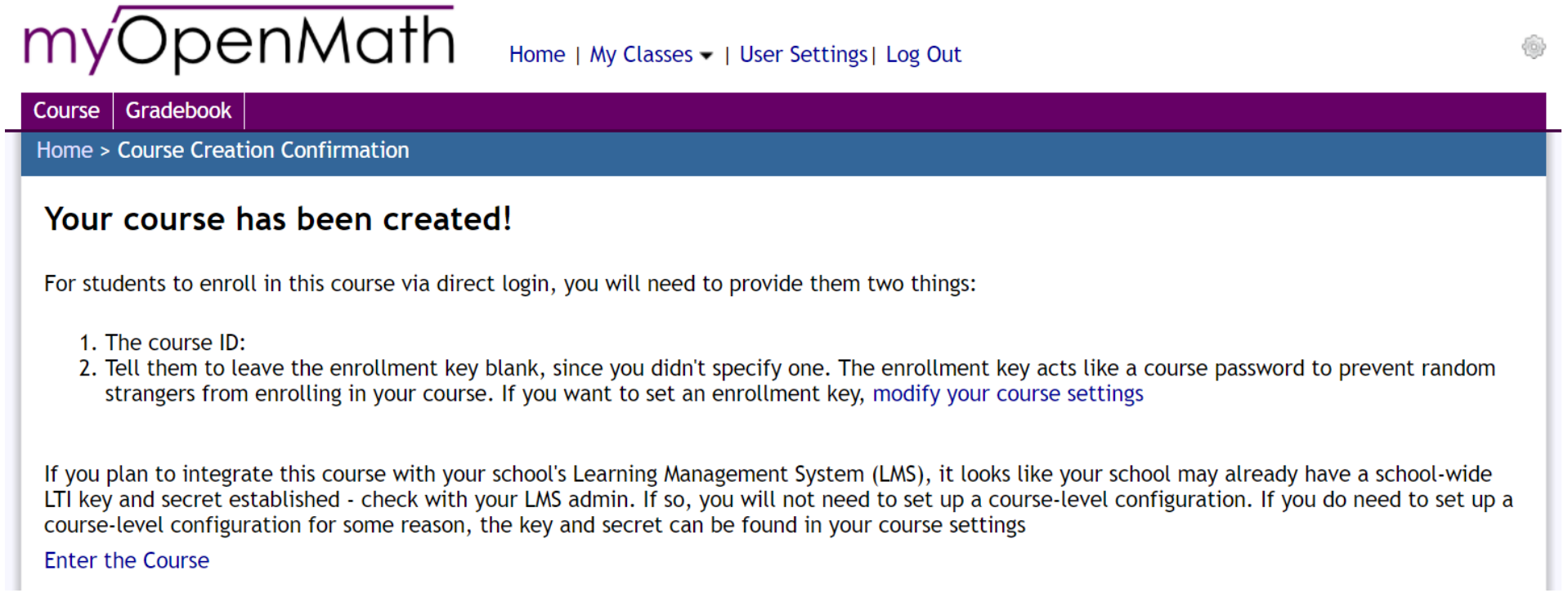
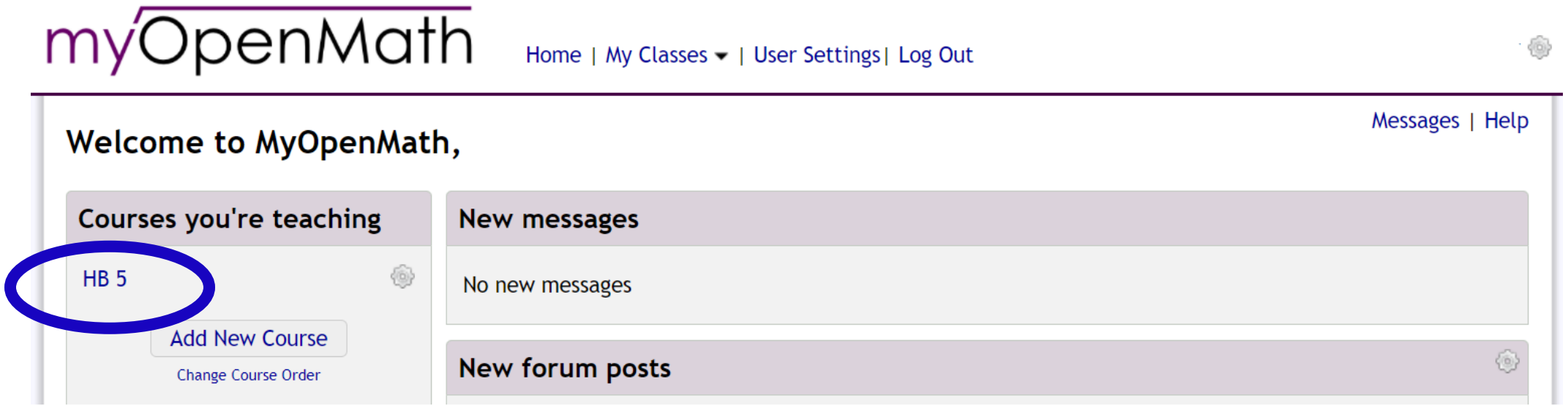
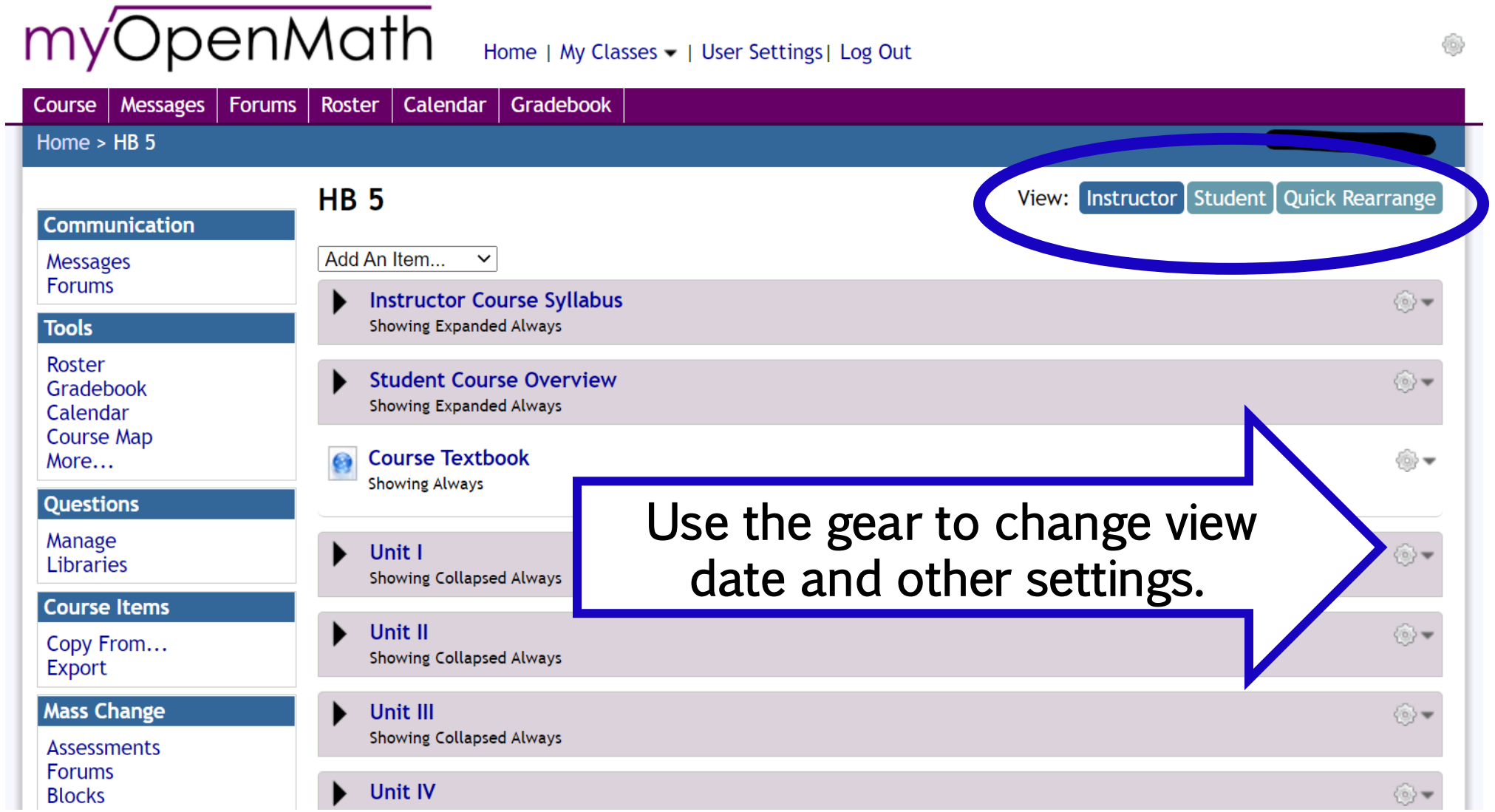


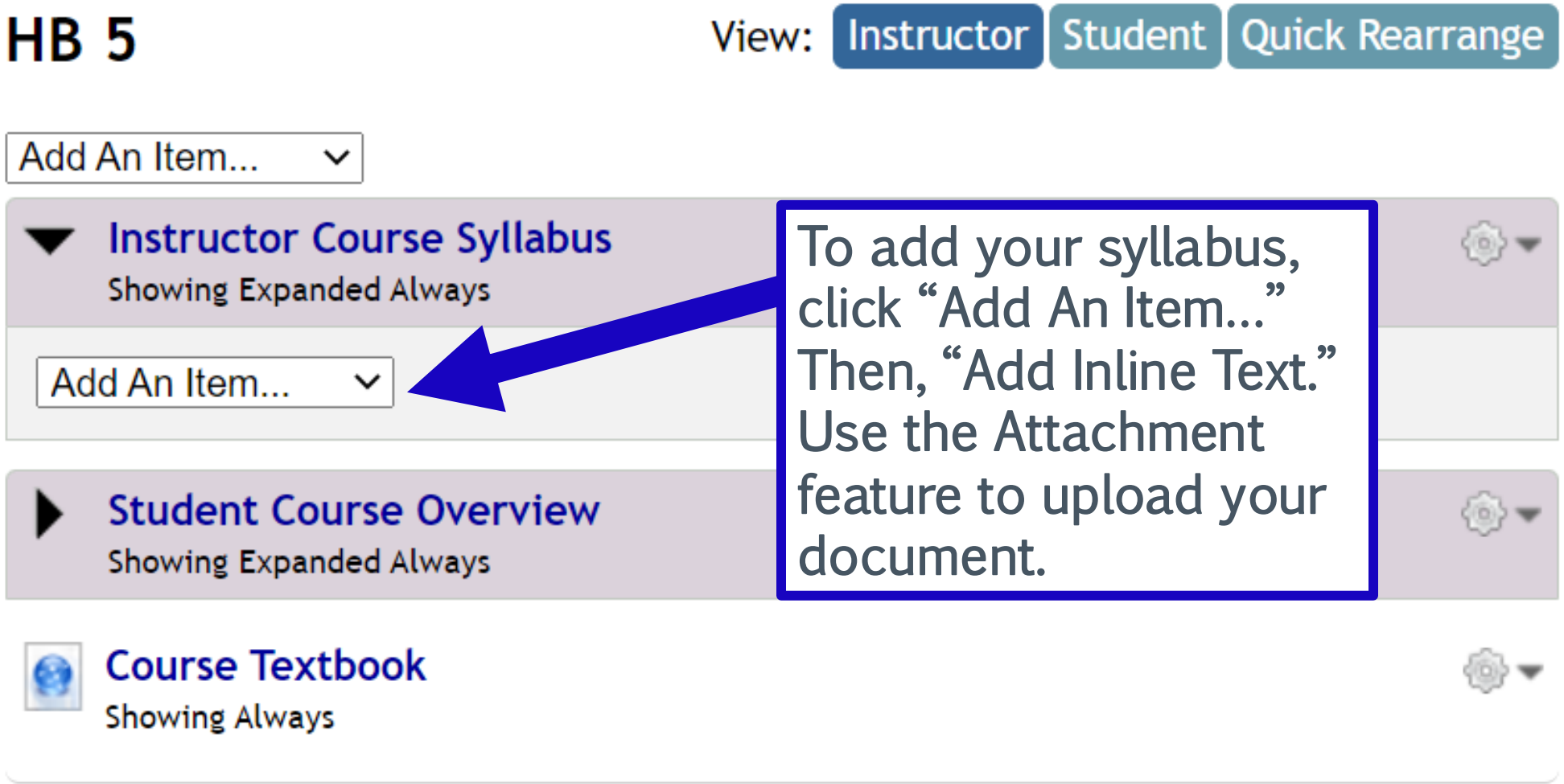
Accessing HB5 Course



Setting Up HB5 Course

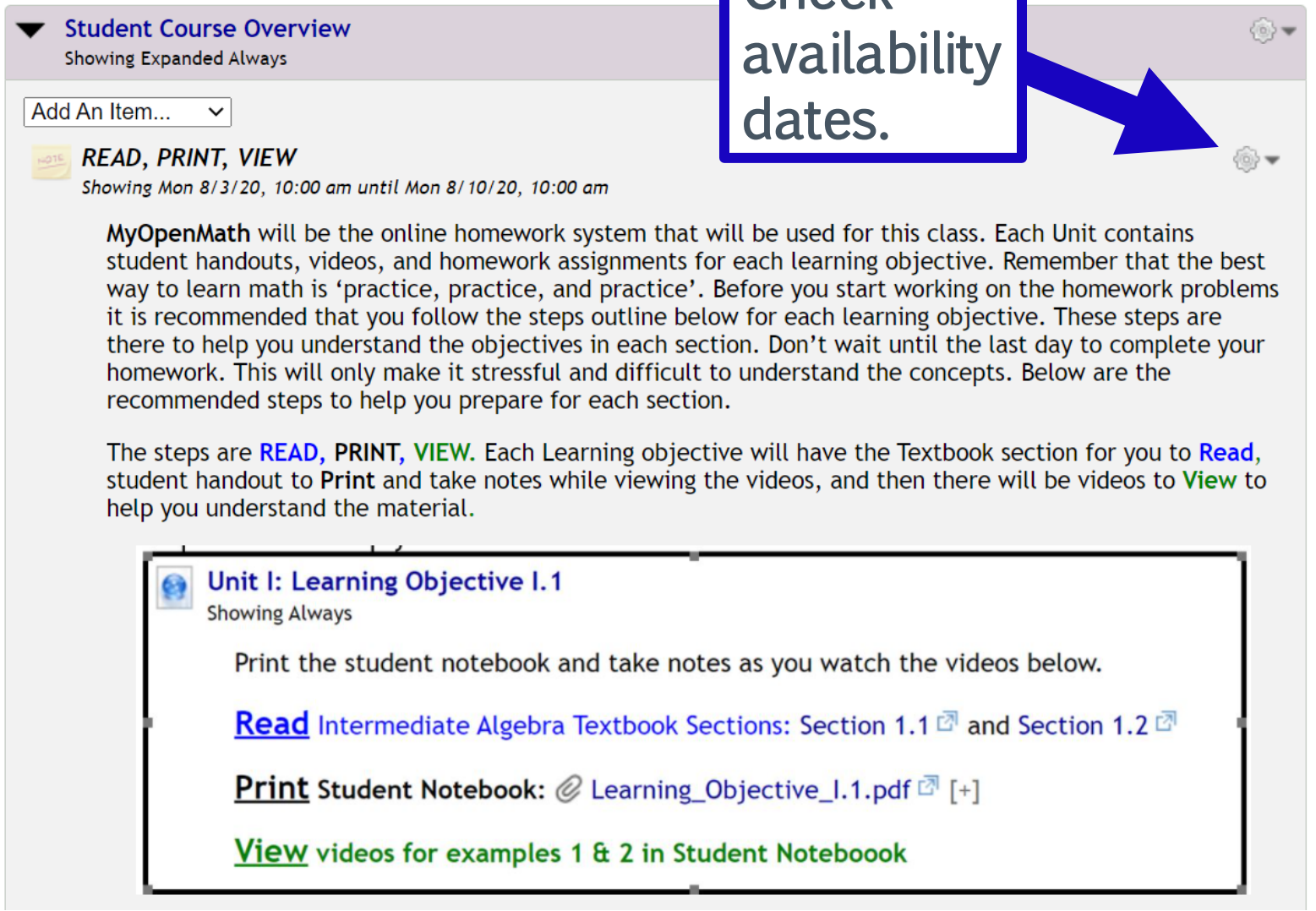


Setting Up HB5 Course

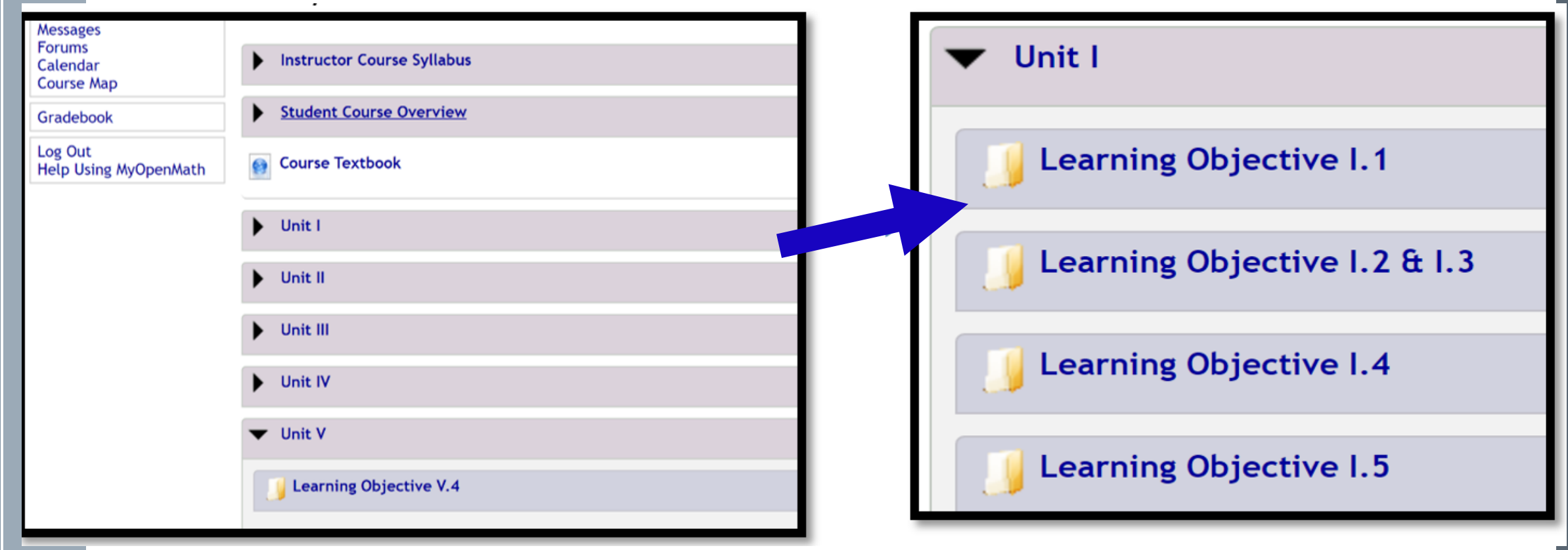


HB5 Course Set Up

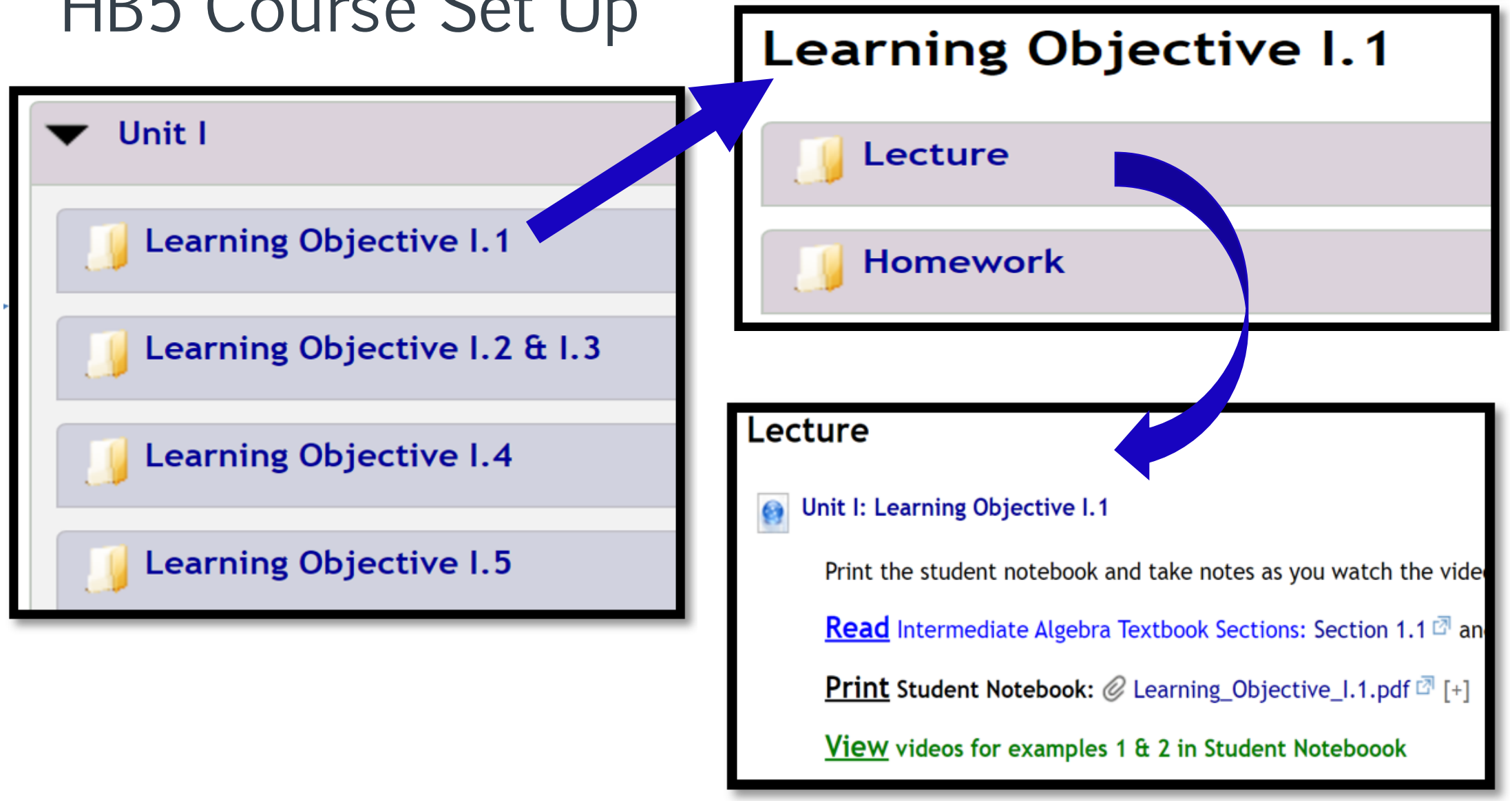
Check availability dates.



HB5 Course Set Up



HB5 Course Set Up



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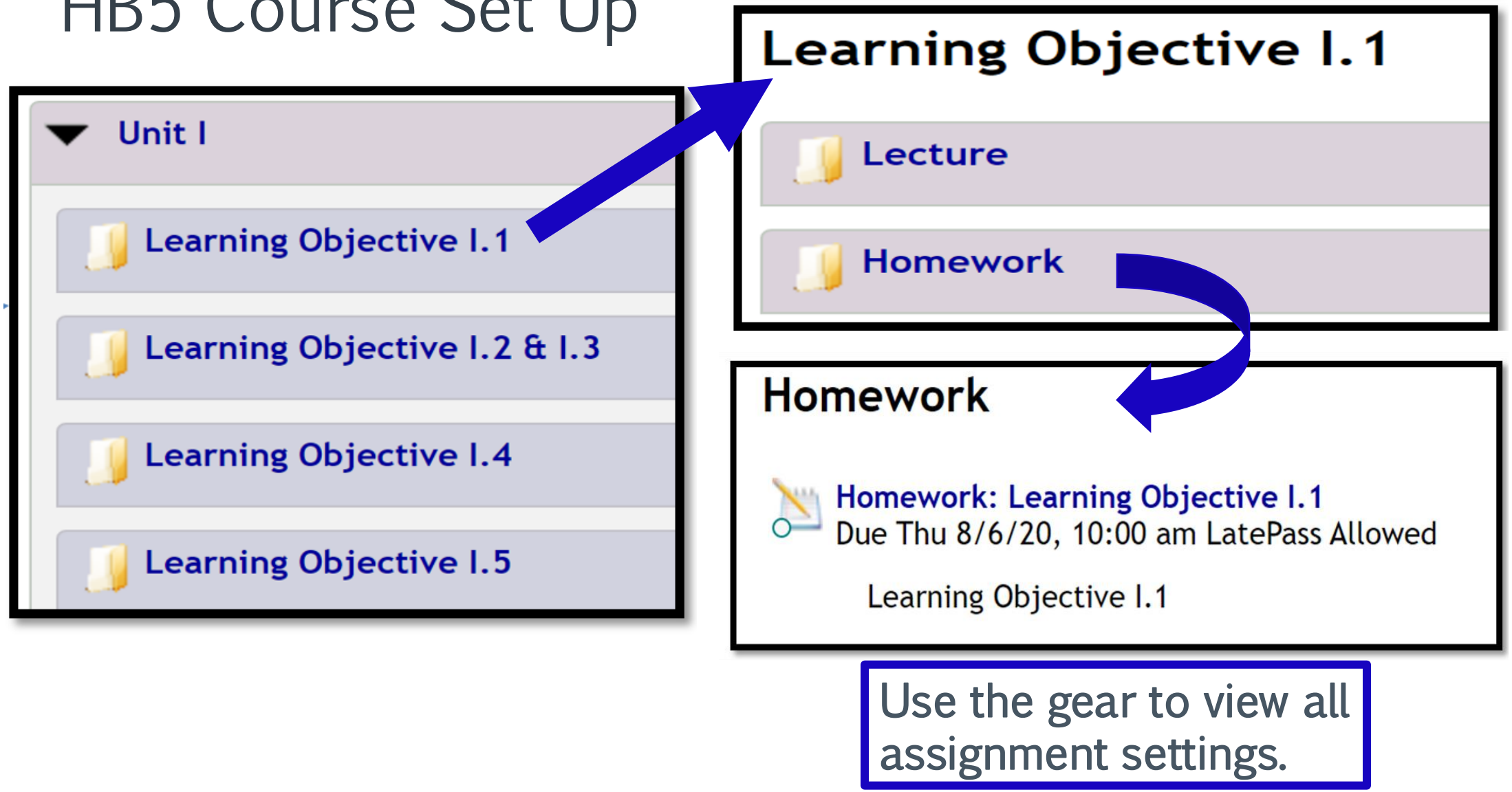

Resources

- Approved Course Resources
- MyMathLab Help
- 2020 College Prep Math Notebook, My Open Math
- Syllabus Support Documents
- Suggested Calendars
- Additional Resources
- Sample Parent Letters

AVAILABLE ON THE ESC19 WEBSITE

FRAMEWORKS

Serving the Educational Communities of El Paso & Hudspeth Counties

ESC Region 19 in partnership with EPCC and UTEP
Transition to College Math Course I – 1 Semester

College Preparatory Integrated Mathematics Course I

Target Students: This course is appropriate for 12th-grade students whose performance on measures outlined in TEC §28.014 indicates that the student is not ready to perform entry-level college coursework in mathematics. This course is designed to advance college and career readiness.

Recommended Pre-requisites: Satisfactory completion of Algebra I, Geometry, and Algebra II. Completion of the Algebra I EOC exam.

Course Description as defined by El Paso Community College and The University of Texas at El Paso:

This course addresses a variety of mathematical topics needed to prepare students for success in college-level mathematics. Also, the course supports students in developing the skills and strategies needed to succeed in college. Mathematics topics include real numbers, basic geometry, polynomials, factoring, linear equations, inequalities, rational expressions, and mathematical models with applications. Successful completion of this course (Course I and Course II), as defined by the memorandum of understanding (MOU) with the partnering institution(s), grants the student an exemption to TSI requirements for mathematics at the partnering institution(s). An overall grade for the semester of 75 or higher indicates that the student has met the college readiness standards established by the School Districts of Region 19, El Paso Community College (EPCC), and The University of Texas at El Paso (UTEP) indicating that the student is prepared for Integrated Mathematics Course II.

Students who pass with a 75 or better will receive a 12-month TSI waiver.

STUDENT LEARNING OUTCOMES	LEARNING OBJECTIVES	High School Equivalent
THE STUDENT WILL:		
1. Identify and apply properties of real numbers and perform accurate arithmetic operations with numbers in various formats and number systems. Apply basic geometric theorems and formulas.	1.1 Add, subtract, multiply and divide, using the order of operations, real numbers and manipulate certain expressions including exponential operations.	Algebra I & Geometry
	1.2 Find square roots of perfect square numbers.	
	1.3 Solve problems involving calculations with percentages and interpret the results.	
	1.4 Use estimation skills, and know why, and when to estimate results.	
	1.5 Find the perimeter and area of rectangles, squares, parallelograms, triangles, trapezoids, and circles; volume and surface area, relations between angle measures, congruent and similar triangles, and properties of parallelograms.	
	2.1 Solve problems using equations and inequalities, absolute value equalities and	
2. Demonstrate the ability to graph and solve linear equations and inequalities.	2.1 Solve problems using equations and inequalities, absolute value equalities and inequalities.	Algebra I & Algebra II
	2.2 Solving linear equations.	
	2.3 Plot ordered pairs on a rectangular coordinate system and graph linear equations.	
	2.4 Graph linear equations & linear inequalities in two variables.	
	2.5 Finding intercepts graphically and algebraically.	
	2.6 Find the slope of a line & write its equation.	Algebra I & Algebra II
3. Solve systems of equations using a variety of techniques.	3.1 Solve systems of linear equations in two variables by graphing.	
	3.2 Solve systems of linear equations in two variables by substitution.	
	3.3 Solve systems of linear equations in two variables by addition.	

4. Understand the operations of polynomial functions and solve problems using scientific notation.	4.1 Exponents	Algebra I & Algebra II
	4.2 Operations of polynomial functions to include addition, subtraction, multiplication, and division.	
	4.3 Solving problems using scientific notation.	
5. Understand, interpret, and make decisions based on financial information commonly presented to consumers.	5.1 Demonstrate understanding of common types of consumer debt and explain how different factors affect the amount that the consumer pays.	Mathematical Models with
	5.2 Demonstrate understanding of compound interest and how it relates to saving money.	
	5.3 Use quantitative information to explore the impact of policies or behaviors on a population.	Applications; Algebra I & Algebra II
	5.4 Factor polynomials using the techniques of the greatest common factor and grouping.	

Make sure all learning objectives are covered.
Final Exam is created based of the learning objectives.

FINAL EXAM AND GRADING POLICY

The students' overall grade will be calculated using the following:

- 50% of individual assessments to include a comprehensive Final Exam.
- 50% other such as daily grades, homework, etc.
- An overall grade for the semester of 75 or higher indicates that the student has met the criteria, and the student is prepared for Integrated Mathematics Course II without further assessment or remediation.

Calculator Policy

Course I: No calculators allowed.

Course II: Scientific calculators allowed.