

Mastering Engineering – Student Access Kit for submitting online homework

You should have received a Student Access Kit with the textbook that you purchased. If you did not, you can purchase an access code from the website.

The cover to the Student Access Kit is shown below. Pull the tab on the back to reveal your access code.

STUDENT ACCESS KIT

STUDENT ACCESS KIT

STUDENT ACCESS KIT

REQUIRED FOR ACCESS TO ONLINE MATERIALS
REGISTER ONLINE AT
www.masteringengineering.com

PEARSON

Mastering
ENGINEERINGTM

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NOT FOR SALE AS A SEPARATE ITEM. IF YOU PURCHASE THIS ACCESS KIT AS A SEPARATE ITEM, YOU WILL NOT BE ABLE TO RETURN IT FOR CREDIT TO THE PUBLISHER.

Engineering Mechanics: Statics, Twelfth Edition
Russell C. Hibbeler

with **myeBook**

Logging in to Mastering Engineering for the first time to register

Go to www.masteringengineering.com. Under **Register Now**, select **Student**

Pearson | Mastering | Engineering & Computer Science

Students using Mastering, share your thoughts on Mastering and be entered to win one of six \$50 gift cards! [Complete the survey](#)

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SIGN IN REGISTER

Students **Get Registered** Features Support Get Involved About Mastering

You'll need these 3 things to get started

- 1**
Your email address
You need a valid email address, preferably the one provided by your school. You'll be getting some important emails from your instructor at this address.
- 2**
Your instructor's Course ID
Your instructor will give you a Course ID that links you directly into your course. It will look something like this: MENGprofessor12345. If you don't know your Course ID, check with your instructor or a classmate.

Note: Not all courses require a Course ID. Please check with your instructor.
- 3**
An access code, credit card, or PayPal
If you already have an access code, you'll redeem it when you register. If you don't, you can use a credit card or PayPal to purchase access.

[OK! Register now >](#)

[Register for self-study access only >](#)

Under **Enter your course ID, provided by your instructor**, enter the ID, and select **Continue**. (Get the Course ID from the instructor, the course syllabus, or the course website).

Register

Ready to register for MyLab or Mastering?

You'll need these 3 things to get started:

- ✓ Your instructor's Course ID, which will link you directly into the right course. A Course ID looks something like this: professor12345. [Don't have a Course ID?](#)
- ✓ Your email address
- ✓ An access code, credit card, or PayPal

Enter your course ID, provided by your instructor

Course ID

Are you using MyLab or Mastering for Blackboard, Canvas, Brightspace, or Moodle? If so, register from your learning management system course. [Here's how.](#)

Register using the screen below.

If you already have a Pearson Account, enter your Username and Password.

If you do not already have a Pearson Account, select Create a Pearson Account first.

Be sure to use your **TCC email address**. The zip code for the college is **23453**.

Register Help

Sign In with Your Pearson Account

Your account gives you access to your Pearson online courses and products.

Username

Password

[Forgot your username or password?](#)

Create a Pearson Account

If you don't already have an account, create one.

[Not sure if you have an account?](#)

Your Course

EGR 140 - Statics - Summer 2018
Course ID: megordyegr140su18
Taught by Paul Gordy
Course ends Jul 20, 2018

Not your course? [Enter a different course ID.](#)

Once you have successfully logged in you can see the options for the course:

1. Purchase a textbook in the bookstore that comes with an access code. Select **Access Code**.
2. Purchase a used textbook elsewhere and just purchase student access.
3. Purchase both student access and an eText.

Register


Help

Select an Option

Use an Access Code

A prepaid **access code** might come with your textbook or in a separate kit.

Access Code



MyLab & Mastering
Mastering
Mastering
Mastering

Use a Credit Card or PayPal

Student access for MasteringEngineering without eText for Hibbeler, Engineering Mechanics: Statics 14e

\$64.95 USD

Student access for MasteringEngineering with eText for Hibbeler, Engineering Mechanics: Statics 14e

\$110.95 USD

Your Course

EGR 140 - Statics - Summer 2018
Course ID: megordyegr140su18
Taught by Paul Gordy
Course ends Jul 20, 2018

Not your course? [Enter a different course ID.](#)

If you selected **Access Code** above (option 1), enter your access code and select **Finish**.

Register

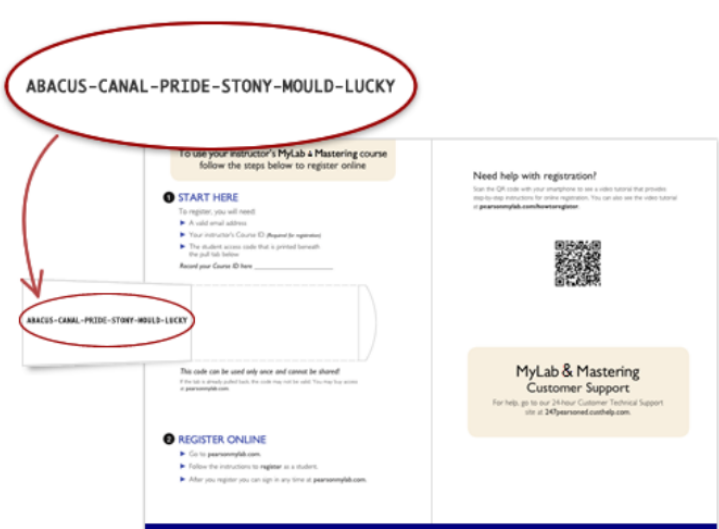
Help

Access Code

Enter a prepaid access code in the boxes, or paste the entire access code into the first box.

Access Code

ABACUS - CANAL - PRIDE - STONY - MOULD - LUCKY **Finish**



ABACUS-CANAL-PRIDE-STONY-MOULD-LUCKY

To use your instructor's MyLab & Mastering course follow the steps below to register online

1 START HERE

- To register, you will need:
 - A valid email address
 - Your instructor's Course ID (shared by register)
 - The student access code that is printed beneath the textbook cover
 - Record your Course ID here

2 REGISTER ONLINE

- Go to pearsonmylab.com
- Follow the instructions to register as a student
- After you register you can sign in any time at pearsonmylab.com

Need help with registration? Scan the QR code with your smartphone to go to a mobile version that provides step-by-step instructions for online registration. You can also see the video tutorial at pearsonmylab.com/helpingyou

MyLab & Mastering Customer Support
For help, go to our 24-hour Customer Technical Support site at 24x7.pearsoned.com/help

ALWAYS LEARNING PEARSON

Cancel

If you selected Option 2 or 3 above, select the button with the price and you will be prompted to enter payment information.

Logging in to Mastering Engineering once you have registered:

Go to www.masteringengineering.com

Select **Sign In**

Enter your username and password.


The screenshot shows the Pearson Mastering Engineering & Computer Science website. At the top, there is a navigation bar with the Pearson logo and the text "Pearson | Mastering | Engineering & Computer Science". Below this is a banner with a survey notification: "Students using Mastering, share your thoughts on Mastering and be entered to win one of six \$50 gift cards! Complete the survey". The main content area features a large image of three students looking at a tablet. Overlaid on this image is a "Sign In" panel on the right and two yellow navigation boxes on the left. The "Sign In" panel includes the text "Sign In", "Already registered? Sign in with your Pearson account.", a "Sign in" button with a person icon, a link for "Forgot username or password?", and a "Register Now" section with "Need access? Start here!" and buttons for "Student" and "Educator". The left navigation boxes are titled "Educators" and "Students", each with links to "Results Library", "Features", and "Training & Support".

Sign In

Already registered? Sign in with your Pearson account.

Username

Password

 **SIGN IN**

[Forgot your username or password?](#)

The homepage for the EGR 140 Mastering Engineering course is shown below. If you have multiple Mastering Engineering courses, use My Courses to select the desired course.

Course Home – Select this tab to see a calendar of when assignments are due

EGR 140 - Statics - Summer 2018 (MEGORDYEGR140SU18)

My Courses | Course Settings

Course Home | Assignments | Roster | Gradebook | Item Library

Statistics, 14e
Hibbeler

Instructor Resources | eText | Study Area

What's New in Statics 14e

Adaptive Follow-ups: Personalized remediation activities
 Reading Questions: 150 new conceptual questions
 End of Section problems: 740 new end of section problems

List of content changes from old to new edition

Course Calendar

May 2018

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	1	2	3	4	5

In-Class Learning

Ask students questions during class to assess their understanding in real time.

Learning Catalytics

Course Materials

Post and manage documents and other files for students in your course.

Manage Documents
 Manage/Record Lecture Video

Learn More

- Getting Started
- How-To Video Tours
- Master Content Correlation 13e to 14e
- Get Your Students Started Materials
- FAQs
- Best Practices
- Ask an Expert Mastering User

Assignments – Select this tab to see a list of all assignments and due dates. Select any assignment to open it.

EGR 140 - Statics - Summer 2018 (MEGORDYEGR140SU18)

My Courses | Course Settings

Course Home | Assignments | Roster | Gradebook | Item Library

Statistics, 14e
Hibbeler

Instructor Resources | eText | Study Area

Assignments List View | Calendar View

(sorted by #)

What are Adaptive Follow-Ups?
 Create Assignment

#	TITLE	CATEGORY	DUE DATE/TIME	AVAILABILITY TO STUDENTS	Edit
1	Introduction to Mastering Engineering	Homework	05/24/18 at 11:59pm	From: 05/05/18 at 11:46am Until: 07/17/18 at 11:59pm	
2	Assignment 1 (Chapter 1)	Homework	05/24/18 at 11:59pm	From: 05/07/17 at 01:07pm Until: 07/17/18 at 11:59pm	
3	Assignment 2 (Chapter 2)	Homework	05/29/18 at 11:59pm	From: 05/07/17 at 04:09pm Until: 07/17/18 at 11:59pm	
4	Assignment 3 (Chapter 3)	Homework	05/31/18 at 11:59pm	From: 05/06/17 at 04:14pm Until: 07/17/18 at 11:59pm	
5	Assignment 4 (Chapter 4)	Homework	06/07/18 at 11:59pm	From: 05/06/17 at 04:17pm Until: 07/17/18 at 11:59pm	
6	Assignment 5 (Chapter 5)	Homework	06/14/18 at 11:59pm	From: 05/06/17 at 04:20pm Until: 07/17/18 at 11:59pm	
7	Assignment 6 (Chapter 6)	Homework	06/21/18 at 11:59pm	From: 05/06/17 at 04:24pm Until: 07/17/18 at 11:59pm	
8	Assignment 7 (Chapter 9 and Section 4.9)	Homework	06/28/18 at 11:59pm	From: 05/06/17 at 04:29pm Until: 07/17/18 at 11:59pm	
9	Assignment 8 (Chapter 10)	Homework	07/05/18 at 11:59pm	From: 05/06/17 at 04:32pm Until: 07/17/18 at 11:59pm	
10	Assignment 9 (Chapter 8)	Homework	07/10/18 at 07:00pm	From: 05/06/17 at 04:34pm Until: 07/17/18 at 11:59pm	
11	Assignment 10 (Chapter 7)	Homework	07/12/18 at 07:00pm	From: 05/06/17 at 04:36pm Until: 07/17/18 at 11:59pm	

Electronic Textbook

Select **eText** (in the upper right corner) if you purchased this option.

20 CHAPTER 2 FORCE VECTORS

2.3 Vector Addition of Forces

Experimental evidence has shown that a force is a vector quantity since it has a specified magnitude, direction, and sense and it adds according to the parallelogram law. Two common problems in statics involve either finding the resultant force, knowing its components, or resolving a known force into two components. We will now describe how each of these problems is solved using the parallelogram law.

Finding a Resultant Force. The two component forces F_1 and F_2 acting on the pin in Fig. 2-7a can be added together to form the resultant force $F_R = F_1 + F_2$, as shown in Fig. 2-7b. From this construction, or using the triangle rule, Fig. 2-7c, we can apply the law of cosines or the law of sines to the triangle in order to obtain the magnitude of the resultant force and its direction.

The parallelogram law must be used to determine the resultant of the two forces acting on the hook. (© Russell C. Hibbeler)

(a) (b) (c)

$F_R = F_1 + F_2$

Viewing Assignments

Select **Assignments** to view the assignments for the course. Select Assignment 2 to see which problems have been assigned. Note that some problems are available for **extra credit**.

Assignment 2 (Chapter 2)

Due: 11:59pm on Tuesday, May 29, 2018

To understand how points are awarded, read the [Grading Policy](#) for this assignment.

[Boat Statics](#) is for 1 point(s) extra credit

Incomplete

[Trigonometric Exercises](#) is for 1 point(s) extra credit

Incomplete

[Vector Addition: Geometry and Components](#) is for 1 point(s) extra credit

Incomplete

[Fundamental Problem 2.1](#) is for 1 point(s)

Incomplete

[Fundamental Problem 2.5](#) is for 1 point(s)

Incomplete

[Problem 2.11](#) is for 1 point(s)

Incomplete

[Problem 2.1](#) is for 1 point(s)

Incomplete

Printing Problems

Select **Print View** to the right on an assignment so that you can print out the problems. Work on the problems at your own pace and then log in to Mastering Engineering again later to submit the answers. *It is strongly recommended that you print each problem, neatly show each solution, and keep all problems in a 3-ring binder so that you will have easy access to them to study for tests.*

EGR 140 - Statics - Summer 2018 Signed in as Paul Gordy, Instructor [Help](#) [Close](#)

Item Type: End-of-Section [Go](#) | Difficulty: 1 | Time: 10m | [Learning Outcomes](#) | [Contact the Publisher](#) Manage this Item [Print View](#)

[← Assignment 2 \(Chapter 2\)](#)

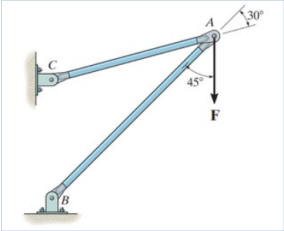
Fundamental Problem 2.5 5 of 25

[Exit Print View](#) **Print**

**Switch to Print View
and select Print**

Fundamental Problem 2.5

The force $F = 460$ lb acts on the frame. Resolve this force into components acting along members AB and AC .



Part A

Determine the magnitude of AB component.

Express your answer to three significant figures and include the appropriate units.

ANSWER:

$F_{AB} =$

Part B

Determine the magnitude of AC component.

Express your answer to three significant figures and include the appropriate units.

ANSWER:

$F_{AC} =$

Submitting Answers

Select Assignments and then select the assignment number/name to work on a particular assignment. Introduction to Mastering Engineering was selected below

Answer entered for problem 2A was correct. The answer entered for problem 2B was incorrect. Note the prompt: **Try Again. 3 attempts remaining.**

Part A

For most answers, you will simply enter your numeric answer directly into the space provided to the right of the equal sign. Answer the following question by typing the numeric answer into the answer box.

If you have a gross of items, you have 144 items. If you buy a gross of eggs, how many dozen eggs do you have?

Express your answer in dozens. Do not enter the units; they are provided to the right of the answer box.

number of eggs = 12 dozen

[Submit](#) [Hints](#) [My Answers](#) [Give Up](#) [Review Part](#)

Correct

Part B

When entering large numbers in the answer box, do not use commas. For example, enter 1276400 for the number 1,276,400. Do not enter 1,276,400. If you accidentally enter commas, you will get a message that your answer has the wrong number of terms. Answer the following question by typing the numeric answer into the answer box.

What is the sum of 9260 and 3240?

Express your answer numerically to at least three significant figures.

sum = 12000

[Submit](#) [Hints](#) [My Answers](#) [Give Up](#) [Review Part](#)

Incorrect; Try Again; 5 attempts remaining

Not quite. Check through your calculations; you may have made a rounding error or used the wrong number of significant figures.

Grade Settings – Varies by instructor/course. For Paul Gordy’s sections, the following rules typically apply:

- Up to 6 attempts are allowed for each numerical problem.
- Answers shown after 6th attempt or you give up (no credit).
- No penalty for wrong answers in numeric answer problems.
- Increasing deduction for each wrong answer in multiple-choice problems.
- No penalty for using hints.
- 2% bonus for not using hints.
- Problems may be reworked for practice.

Finish an assignment later?

You can exit any assignment at any time. Each time you hit submit for a given problem, it is permanently saved. You can work as many or as few problems as you like at any time. You can work some parts of a problem and work other parts of the same problem at a different time.

Completed Assignment

Once you have submitted all answers correctly, a message will appear that you have completed the assignment.

You completed this assignment.

[Welcome!](#) is for 1 point(s) *(full credit)*
Your score: 100%

[Intro to Numeric Answers](#) is for 1 point(s) *(full credit)*
Your score: 100%

[Intro to Numeric Answers with Units](#) is for 1 point(s) *(full credit)*
Your score: 100%

[Introduction to Symbolic Answers](#) is for 1 point(s) *(full credit)*
Your score: 100%

[Intro to Ranking Questions](#) is for 1 point(s) *(full credit)*
Your score: 100%

[Intro to Sorting Questions](#) is for 1 point(s) *(full credit)*
Your score: 100%

[Introduction to Vector Drawing Questions](#) is for 1 point(s) *(full credit)*
Your score: 100%

Checking your grades

Select **Scores** to see your grade on each assignment.

Your grades will be transferred to Blackboard at the end of the semester. If you earned 82 out of 86 possible points, then a grade of $82/86 * 100\% = 95.6\%$ will be entered in Blackboard.

	Weight	Score	Assigned Points
Homework			
Assignment 1 (Chapter 1)		0.0	7
Introduction to MasteringEngineering		9.0	9
Assignment 2 (Chapter 2)		0.0	16
Assignment 3 (Chapter 3)		0.0	10
Assignment 4 (Chapter 4)		0.0	19
Assignment 5 (Chapter 5)		0.0	14
Assignment 6 (Chapter 6)		0.0	15
Assignment 7 (Chapter 9 and section 4.9)		0.0	14
Assignment 8 (Chapter 10)		0.0	10
Assignment 9 (Chapter 8)		0.0	10
Total		0.0	0

Study Area

Select **Study Area** in the upper right part of the Mastering Engineering site for your course to access many useful study tools.

Select the Chapter and then select GO to see the study tools available for that chapter.



STUDY AREA

[Home](#) > [Chapter 2: Force Vectors](#) > [Video Solutions](#)

Video Solutions

[Additional Problems](#)[Worked Examples](#)[Statics Study Pack](#)[Endpapers from Student eBook](#)[Review for the Fundamentals of Engineering Examination](#)[Tutorials on using Matlab and Mathcad in Mechanics](#)[eText](#)

Video Solutions

Chapter 2: Force Vectors

[Chapter 2 Sections 2, 3 - Force Vector Resultant](#)[Chapter 2 Sections 2, 3 - Force Magnitude Minimization](#)[Chapter 2 Sections 2, 3 - Force Vector Addition](#)[Chapter 2 Sections 3, 4 - Summation of Coplanar Force Systems](#)[Chapter 2 Sections 3, 4 - Addition of Coplanar Force Systems](#)[Chapter 2 Sections 5, 6 - Force Resultant in 3-D](#)[Chapter 2 Sections 5, 6 - Force Vector Coordinate Angles](#)[Chapter 2 Sections 7, 8 - Force Directed Along a Line](#)[Chapter 2 Sections 7, 8 - Force Directed Along a Structural Member](#)[Chapter 2 Section 9 - Force Projected Onto an Axis](#)