

Tentative GUI Mockups

Project Stat



MetriKsAmérique

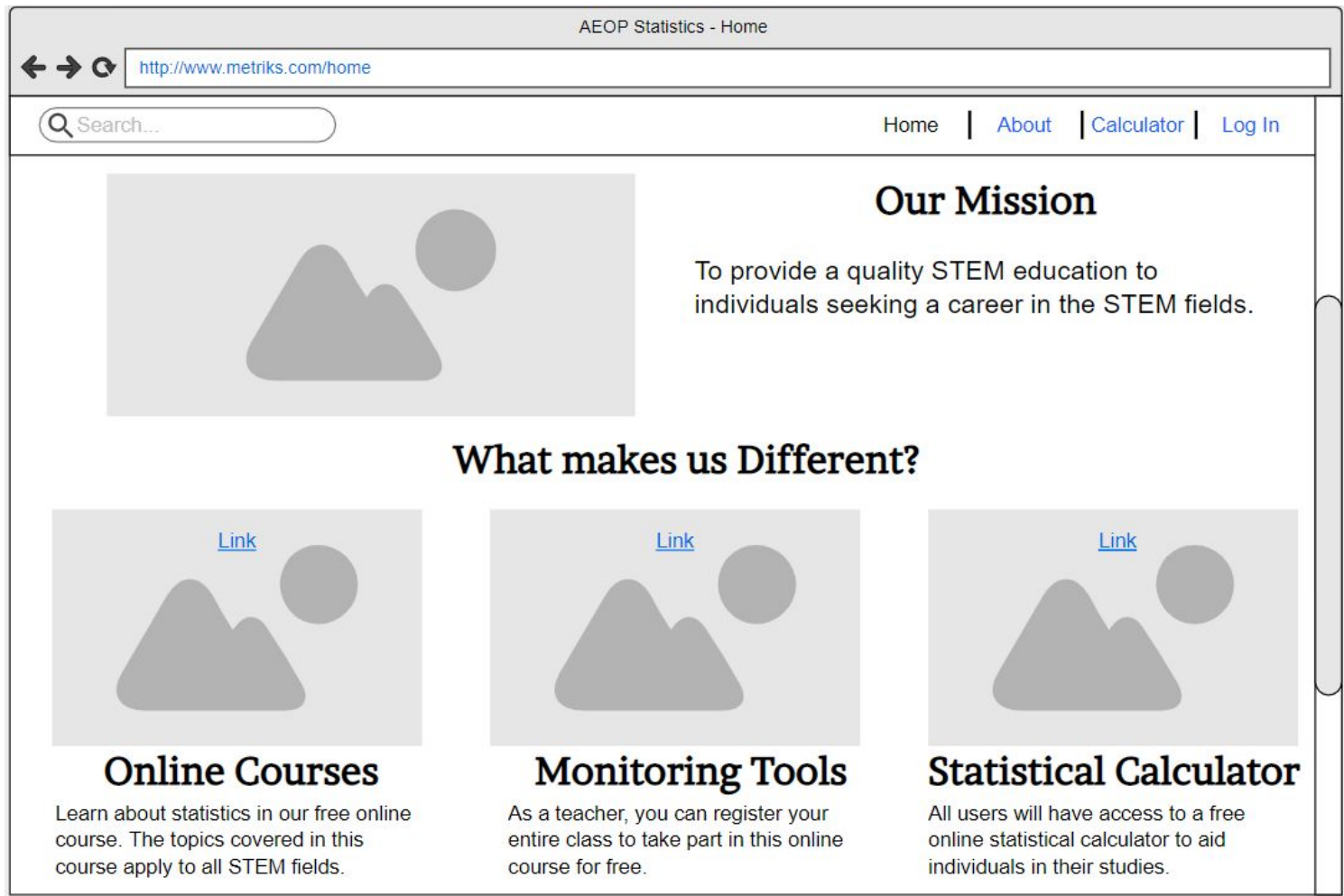


DREXEL UNIVERSITY
School of
Education



DREXEL UNIVERSITY
College of
Computing &
Informatics

Homepage



About Us

AEOP Statistics - About Us

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About Us

Partnered with the Army Educational Outreach Programs (AEOP), our project will aim to provide STEM enrichment opportunities to middle school aged students to adults, especially those that are educationally disadvantaged. With individuals in science, technology, engineering, and mathematical fields underrepresented, AEOP has the vision of increasing these numbers by providing competitions, research lab apprenticeships, and scholarships within the STEM field to keep individuals competitive and engaged. Despite their attempts to bring these numbers up, according to annual AEOP evaluation data, reports have indicated that many students that participate in these programs are from underprivileged urban areas and do not have access to strong research design and statistical instruction necessary to fully utilize these opportunities.

Our project is to create a multi-module web interface that will provide interactive content, teaching statistics on a easy-to-use platform as a free, online educational resource. With this implemented, we can provide the teachings necessary for students participating in AEOP and hopefully eliminate the knowledge gap of statistics in particular. On our website, we will be providing lessons to teach the content, labs to reinforce the learning, and quizzes to test their understanding of the many modules that we will be available.

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Contact

Our project is supported by **Dr. Toni A. Sondergeld** (tas365@drexel.edu) from Drexel's School of Education and by **Dr. Gregory E. Stone** (gregory@metriks.com) from the University of Toledo's College of Education.

Please feel free to reach out with any questions you may have by submitting the form below

Name

Email

Phone

Message

Send

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Please sign up for an account to get started.
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Student	Teacher
First Name	Last Name
<input type="text"/>	<input type="text"/>
Email Address	
<input type="text"/>	
Password	Confirm Password
<input type="text"/>	<input type="text"/>
Birth Year	State
<input type="text"/>	<input type="text"/>
<input type="checkbox"/> I am not a robot 	<input type="button" value="Sign Up"/>
<input type="checkbox"/> I have read and agree to the Terms and Conditions	

Student

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<input type="text"/>	
Password	Confirm Password
<input type="text"/>	<input type="text"/>
School	State
<input type="text"/>	<input type="text"/>
<input type="checkbox"/> I am not a robot 	<input type="button" value="Sign Up"/>
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Teacher

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Our Mission

STEM education to
a career in the STEM fields.

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Last Name


Email Address

Change Password

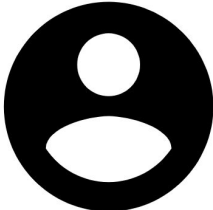
Save Changes

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[View Dashboard](#)

Student Dashboard

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My Dashboard

[Achievements](#)

[Assign a Teacher](#)

Unit 1

Lesson 1

40%

Preliminary Test

?

You have not successfully completed the preliminary test at this time.

Interactive Module

✓

Hands-on Lab

Quiz

Lesson 2

🔒

! You must complete the prior lesson to continue!

Unit 2

🔒

Unit 3

🔒

Teacher Dashboard

Ver. 1
Can take
course

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[Monitor Your Classroom](#)

Unit 1

^

Lesson 1100%

Preliminary Test

✓ You have successfully completed the preliminary test!

^

Interactive Module

Hands-on Lab

Quiz

Lesson 2100%

Preliminary Test

✓ You have successfully completed the preliminary test!

▼

Unit 2

▼

Teacher Dashboard

Ver. 2
Can't take
course

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Review Module Content

Unit 1 ^

Lesson 1

Preliminary Quiz | Interactive Module | Hands-on Lab | Quiz

Lesson 2

Preliminary Quiz | Interactive Module | Hands-on Lab | Quiz

Unit 2 ▼

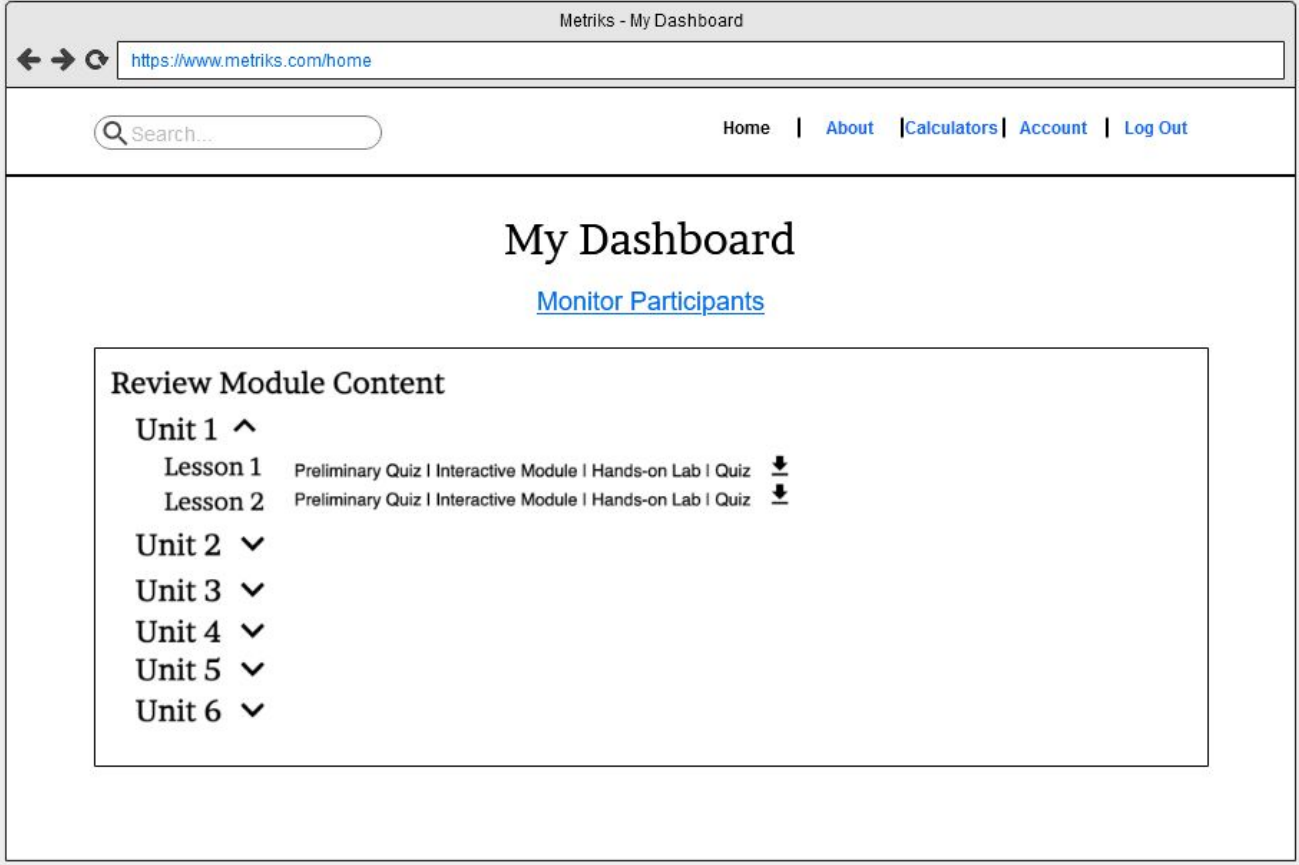
Unit 3 ▼

Unit 4 ▼

Unit 5 ▼

Unit 6 ▼

Admin Dashboard



Admin
Monitoring
Page

AEOP Statistics - Monitor all the Registered Users

← → ↺

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Monitoring Console for Admin

Registered Students

Name	Unit 1 Acheivements	Unit 2 Acheivements
Drew Silva	2/10 <div><div></div></div> ↓	0/5 <div><div></div></div> ↓
Taylor Paul	5/10 <div><div></div></div> ↓	0/5 <div><div></div></div> ↓
Salman Khan	10/10 <div><div></div></div> ↓	4/5 <div><div></div></div> ↓

◀

▶

Registered Teachers

Name	Unit 1 Achievements	Unit 2 Acheivements
Eric Byrd	5/10 <div><div></div></div> ↓	0/5 <div><div></div></div> ↓
Larry Johnson	10/10 <div><div></div></div> ↓	3/5 <div><div></div></div> ↓
Tracey Armstrong	2/10 <div><div></div></div> ↓	0/5 <div><div></div></div> ↓

◀

▶

AEOP Statistics - Monitor Your Classroom

← → ↺

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My Classroom Dashboard

List of students who have earned the badges for completing every module in a given unit.

• Salman Khan - For Unit 1

My Students

Name	Unit 1 Achievements	Unit 2 Acheivements
Drew Silva	2/10 <div></div>	0/5 <div></div>
Taylor Paul	5/10 <div></div>	0/5 <div></div>
Salman Khan	10/10 <div></div>	4/5 <div></div>
John Cena	3/10 <div></div>	0/5 <div></div>

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Class Registration For Teachers

Metriks - My Dashboard

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My Dashboard

[Enroll Students](#)[Monitor Your Classroom](#)

Add a Student

Enter your students's email address:

My Students

Josh Gomez

Alexander Evans

Connie Webb

Alexander Evans

Erika Powell

Josh Gomez

Connie Webb

Erika Powell

Achievements

Page


AEOP Statistics - Achievements

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Achievements

2/25

UNIT 1

2/10 >>

UNIT 2

0/5 >>

UNIT 3

0/5 >>

UNIT 4

0/5 >>

[See All](#)


AEOP Statistics - Achievements

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http://www.metriks.com/achievements_unit1


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Achievements


2/10

Achievements Home > Unit 1

One


Completed Unit 1 Lesson 1!

NOV 11 2019


Two

Completed Unit 1 Lesson 2!


NOV 15 2019

Three


Completed Unit 1 Lesson 3!

Four

Completed Unit 1 Lesson 4!

Five

Completed Unit 1 Lesson 5!

Six

Completed Unit 1 Lesson 6!

Pop-Up
Window
For
Achievements



CONGRATULATIONS!



You have unlocked the 'One'
Achievement for completing
module 1 in Unit 1!

[Go to Achievements Page](#)

Quizzes

AEOP Statistics - Quiz One

[←](#) [→](#) [↺](#) http://www.metriks.com/Module_One/Quiz_One

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Lesson One - Quiz One

Print

Question 1:
Which of the following is a continuous variable?

☐ The number of students who slept more than 8 hours last night.

☐ The number of books loaned out by a library per year.

☐ The number of Big Macs sold per year.

☒ The amount of time students in a dorm slept last night.

Question 2:
If you subtract the mean from every score in a set of scores, then square each of the resultant deviation scores, add them up, and divide by the number of scores, what have you calculated?

☐ The standard deviation.

☐ The standard error.

☐ The mean.

☒ The variance.

Question 3:

Submit Quiz

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AEOP Statistics - Quiz One

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Lesson One - Quiz One [Print](#)

Question 1:
Which of the following is a continuous variable?

- ☐ The number of students who...
- ☐ The number of books loaned...
- ☐ The number of Big Macs sold...
- ☒ The amount of time student...

Question 2:
If you subtract the mean from each score, add them up, and divide by the resultant deviation squared?

- ☐ The standard deviation.
- ☐ The standard error.
- ☐ The mean.
- ☒ The variance.

Question 3:

Submit Quiz Back

Leave Quiz

Are you sure you want to leave?

All progress will be lost!

Leave Stay

AEOP Statistics - Lab One

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Lesson One - Lab One

Print

The results of your statistical analyses help you to understand the outcome of your study, e.g., whether or not some variable has an effect, whether variables are related, whether differences among groups of observations are the same or different, etc. Statistics are *tools* of science, *not* an end unto themselves. Statistics should be used to substantiate your findings and help you to say objectively when you have significant results. Therefore, when reporting the statistical outcomes relevant to your study, subordinate them to the actual *biological results*.



Graph about the text

Question 1:

Which of the following is a continuous variable?

☐ The number of students who slept more than 8 hours last night.

☐ The number of books loaned out by a library per year.

☐ The number of Big Macs sold per year.

☒ The amount of time students in a dorm slept last night.

Submit Lab

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Lab Feedback


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Lesson One - Lab One [Print](#)

The results of your statistical analyses help you to understand the outcome of your study, e.g., whether or not some variable has an effect, whether variables are related, whether differences among groups of observations are the same or different, etc. Statistics are *tools* of science, *not* an end unto themselves. Statistics should be used to substantiate your findings and help you to say objectively when you have significant results. Therefore, when reporting the statistical outcomes relevant to your study, subordinate them to the actual *biological results*.



Graph about the text

Question 1:
What is the median of the following set of numbers: 3,3,3,4,5,6,7,8,8,9?

X

You selected the answered 3
The correct answer was 5.5
Explanation: The median is the midpoint of a distribution. If you've got an even number of scores in your dataset, as in this case, you take the mean of the middle two scores.

7/10 Answers were Correct [Back](#)

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Lesson One - Lab One

Print

The results of your statistical analyses help you to understand the outcome of your study, e.g., whether or not some variable has an effect, whether variables are related, or whether there are differences among groups of observations are the focus of statistical analysis. Statistics are *tools* of science, *not* a science in themselves. Statistics should be used to substantiate your findings, not to say objectively when you have found something. Therefore, when reporting the statistical results of your study, subordinate them to the main findings of your study.



Graph about the text

+
-
x

Leave Lab?

Are you sure you want to leave?

All progress will be lost!

Leave

Stay

Question 1:

Which of the following is a continuous variable?




- ☐ The number of students who slept more than 8 hours last night.
- ☐ The number of books loaned out by a library per year.
- ☐ The number of Big Macs sold per year.
- ☒ The amount of time students in a dorm slept last night.

Submit Lab

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Interactive Module Lessons


AEOP Statistics - Lesson One



http://www.metriks.com/Module_One/Lesson_One

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Lesson One	What are Variables?
Lesson: What are Variables?	
Question(s): About Variables	
Lesson: How to identifying variables	
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Interactive Modules Questions

AEOP Statistics - Lesson_Questions

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Lesson One

About Variables

Lesson:
What are Variables?

Question(s):
About Variables

Lesson:
How to identifying
variables

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Question 1

This is a place holder that will be replaced with a question about statistics?

☐ Example answer 1

☐ Example answer 2

☒ Example answer 3

☐ Example answer 4

Previous Question

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Interactive Modules Questions FeedBack

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Lesson One

Lesson:
What are Variables?

Question(s):
About Variables

Lesson:
How to identifying
variables

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About Variables

Question 1

This is a place holder that will be replaced with a question about statistics?

Results:

Incorrect!

You selected: Example answer 3

The correct answer was: Example answer 4

Feedback: Here is where we would explain why the answer is
Example answer 4

Previous Question

Next Question

1/25 Questions

Calculator (This is not our final version just an example of what it will look like)

