



FACULTY SHOWCASE

Prof. Jill Mitten - Introductions

Dr. Matt Smith – ALEKS – Math

Prof. Lisa Lindquist – ALP – English

Dr. Shawn Holt – Presidium Athletics LLC



Richard Bland College
of WILLIAM & MARY

ALEKS & DEVELOPMENTAL MATH

Dr. Matt Smith

ALEKS – Math



ALEKS – “Assessment and Learning in Knowledge Spaces”

Highly Adaptive Questioning

Quickly Identifies Student Strengths and Weaknesses

Individualized Remediation Plan focused on weaknesses

Piloting ALEKS in Spring 2016 for Math 100A – Basic Algebra

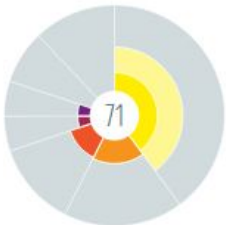


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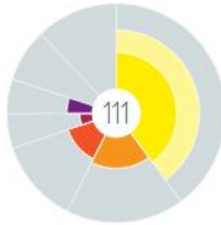
Jan 19
- Jan 26

All Topics



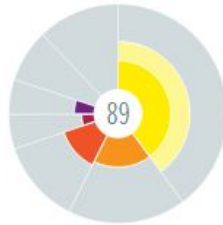
32 39 300
Mastered Learned Remaining

All Topics



67 44 260
Mastered Learned Remaining

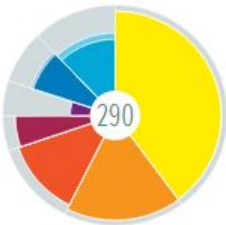
All Topics



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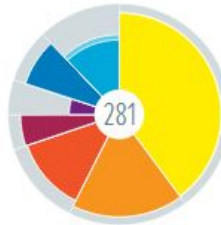
Apr 11
- Apr 17

All Topics



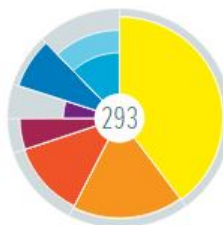
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All Topics



276 5 90
Mastered Learned Remaining

All Topics



277 16 78
Mastered Learned Remaining



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Prof. Lisa Lindquist

ALP –English



RBC-19 Goal: Reduce Developmental Coursework

- Nationally, 2/3 of freshmen in college require at least one developmental course.
- More developmental coursework does not equal increased college completion.
- Our pilot at RBC: the Accelerated Learning Program (ALP)

ACCELERATED LEARNING PROGRAM

- Based on work done at Baltimore Community College
- Students are mainstreamed using a co-requisite model.
- Model promotes completion agenda



ELEMENTS OF THE ALP MODEL

- Rigorous Academic Standards
- Backward curriculum/scaffolding
- Affective issues/non-cognitive addressed
- Active learning and critical thinking are key concepts
- Mentoring /Lab/ and supplemental instruction are ACTIVE

STUDENTS RECEIVE:

- A meaningful context for their work
- A cohort of learners/individual attention
- More engagement and increased attachment to college
- Exposure to strong writers
- A more direct path to graduation



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FACULTY SHOWCASE

Dr. Shawn Holt

Chemistry & Biology



PRESIDIUM ATHLETICS LLC

**DR. SHAWN E. HOLT
CHIEF SCIENTIFIC OFFICER
HEAD GOLF COACH & PROFESSOR
RICHARD BLAND COLLEGE**

ooblock™

The **Ooblock™** Athletic Tape name was inspired by the science behind **oobleck**.

Ooblock™ is infused with Shear Thickening Fluid (**STF™**), possessing the unique qualities of the old comstarch and water substance known as “**oobleck**,” which is a fluid that hardens on impact.

Ooblock™ literally “blocks” momentary twists and sudden impacts.



Ooblock™ is the athletic tape that stiffens upon twists or impact— bracing against injury.



HOW DOES **OOBLOCK™** BEND THE LAWS OF PHYSICS?

Ooblock™ is bonded with Shear
Thickening Fluid that hardens on impact

Developed for use in military body armor

[WATCH PEOPLE WALK ON OOBLOCK FLUID](#)





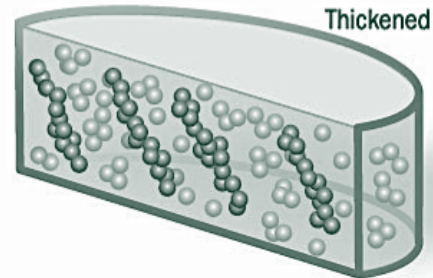
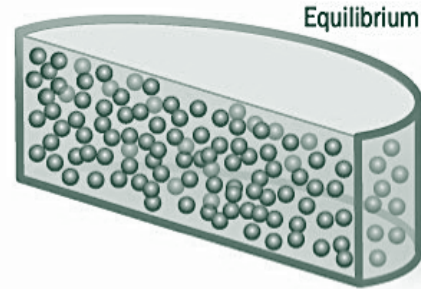
STF™ takes the force of an impact and disperses the energy over a larger surface area to prevent injury

The silica particles float freely in their natural state – equilibrium

Sudden impact causes the silica to stick together disbursing the force – thickened state

After impact, the silica reverts to its natural state – a dynamic process

Shear-thickening fluid





FLUID WHEN YOU MOVE SOLID WHEN THEY TRY TO STOP YOU

Protect against twisted and sprained ankles

Resists shock 2X better than athletic tape

Deflects force 10X better

GET PROOF

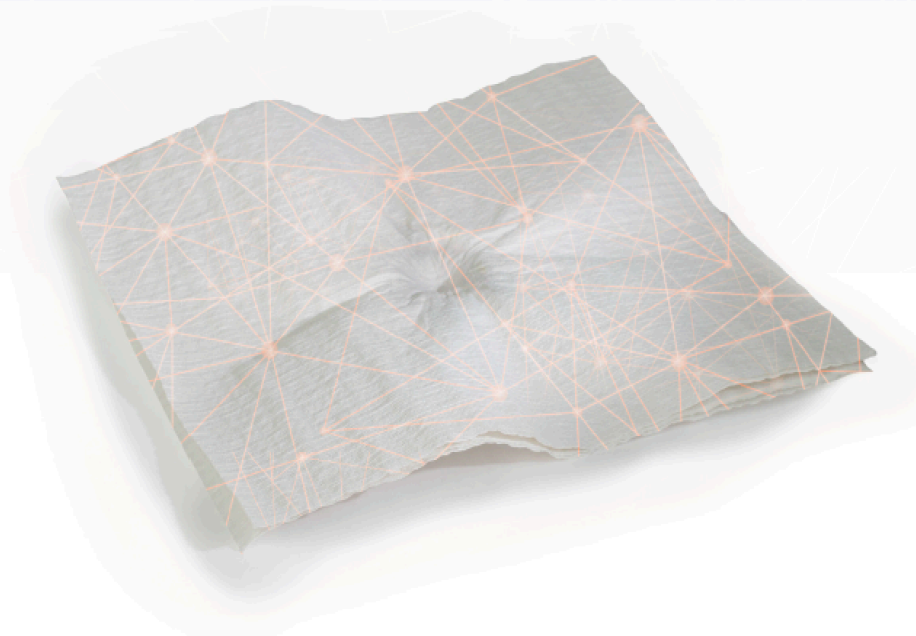


OOBLOCK™ IS NOT BULLET PROOF, **BUT IT WAS INSPIRED BY MILITARY BODY ARMOR.**

In laboratory tests, Kevlar® treated with Shear Thickening Fluid (STF™) stopped bullets 3.5X better.

Only 4 layers of STF™-treated Kevlar® had the same stopping power as 14 layers of untreated Kevlar®.

But STF™-treated Kevlar® is just as flexible as plain Kevlar®.



STF-Enhanced Solutions

