

## Scientific Literacy Statistics

Only 30% of U.S. high school graduates entering college are ready for college-level science.



U.S. students rank 25th in math in the world.



U.S. students rank 17th in science in the world.



Only 39% of college freshman STEM majors scored moderate to high on a scientific literacy scale.

## Retention In STEM

Currently in the US, one out of every two freshman STEM majors do not graduate with a STEM major.



The majority of STEM majors that switch to non-STEM majors do so during their first two years of study due to poor grades or disenfranchisement.

One-fourth of minority students who start as STEM majors graduate with a STEM major.



## Career Outlook For STEM Majors

STEM-related job opportunities will grow nearly 17% over the next decade; more than 60% of those jobs will require a college degree or higher.

There will be a million more new STEM job openings in future years and students are currently not in the pipeline to fill these positions.

The highest paying life and physical science occupations had mean wages more than double the U.S. average.

Eight of the 10 largest STEM occupations are related to computers and information technology.

By 2018 close to 65% of STEM job openings will be for those with Bachelor's degrees and above.

## For More Information

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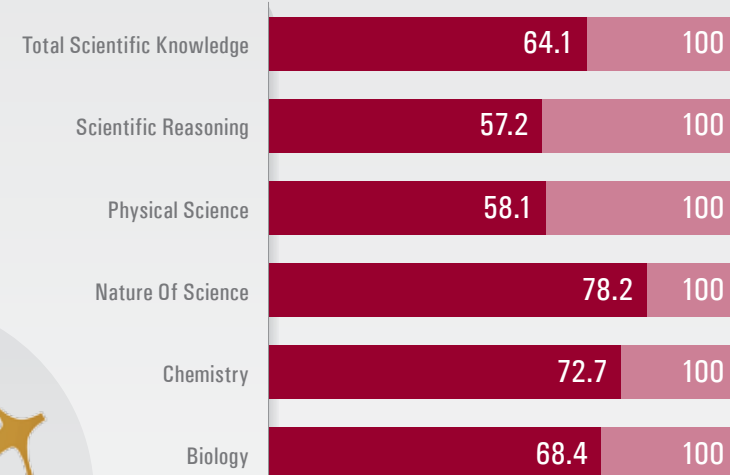


# MOREHOUSE COLLEGE | SCIENTIFIC LITERACY CENTER

**Morehouse Scientific Literacy Center Mission** - The Center's mission is to promote student knowledge, interest and successful pursuit of STEM majors; enhance student cognitive and non-cognitive skills needed for success in the STEM major; provide a scientific literacy curriculum that is specifically designed to increase STEM retention; promote increased student awareness of career opportunities in STEM; provide a scientific literacy assessment; and study this instrument to continue to research the scientific literacy of freshman STEM majors.

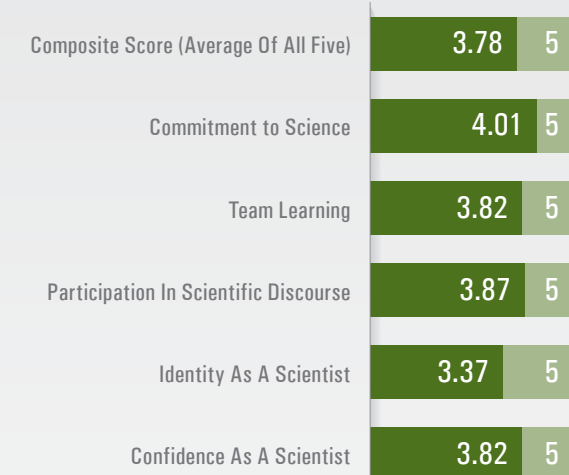
## Scientific Literacy Survey Results for Pre and Early Freshman STEM Majors

### Measure Of Accuracy On General Science Knowledge Assessment Test



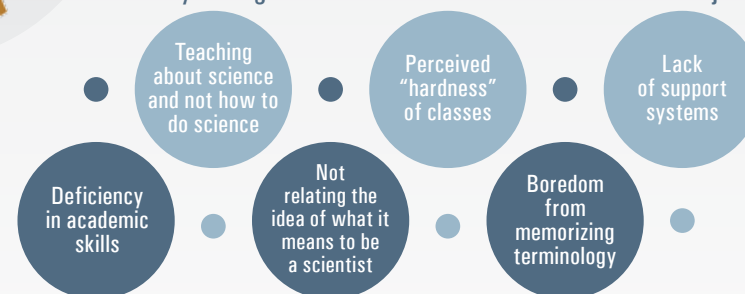
Possible Scores Ranging From 0-100

### Attitudinal/Behavioral Domains of Scientific Literacy

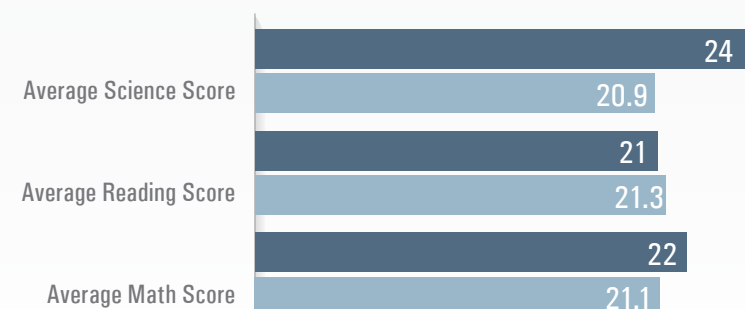


Average Student Response When Asked To "Agree" On Scale from 1-Disagree to 5-Agree

## Why College Retention Rates are Low for STEM Majors

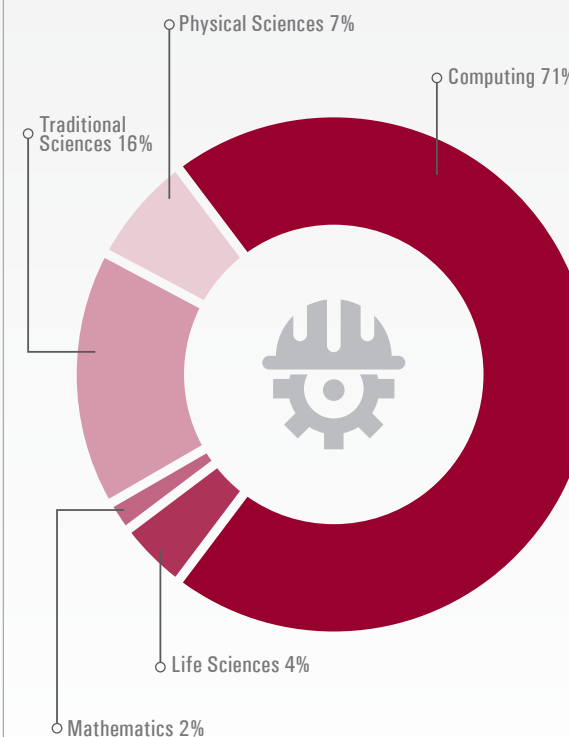


Incoming freshmen with an average ACT score do not necessarily possess the skills needed to succeed in introductory college level courses. Meeting the benchmark indicates that a student has a 50% chance of earning a "B" or better in the corresponding freshman college course.



■ ACT Benchmarks ■ National Scores

## New STEM Jobs by Area Through 2018



Source: US-BIS Employment Projections, 2008-2018