Bachelor’s Degrees in Physics: What you didn’t know
Job Stability & Satisfaction

Based on national surveys of students with bachelor’s degrees in physics

High employment rates (95%)

High job satisfaction in terms of:
  Feelings of job security
    ■ 75% to 93% (depending on sector) felt secure.
  Overall satisfaction
    ■ 71% to 90% (depending on sector) felt a sense of satisfaction.
Job Opportunities

Flexible Options and Sectors Including:

- National Labs
- Professional Schools (e.g., Medicine, Health)
- Environmental/Climate Science, Energy
- Space Science
- Government/Policy
- Public Administration, Business
- Communication (e.g., Science Writing, Media)
- Education (e.g., High School, College/University)
- Engineering, Computing
- Arts (e.g., Music, Television)
- Not-for-Profit Organizations
- Graduate Studies (e.g., Multiple STEM Disciplines)
Job Opportunities

On the MCAT (Medical College Admission Test), which major from amongst the following gets the highest scores? Lowest scores?
A. Biology   B. Psychology   C. Chemistry   D. Physics   E. Engineering

On the LSAT (Law School Admission Test), which major from amongst the following gets the highest scores? Lowest scores?
A. Biology   B. Psychology   C. Chemistry   D. Physics   E. Engineering
Surprising Facts: Medicine

Physics Majors and Medical School

Physics majors get very high scores on the MCATs.

### Scores on MCAT by major

<table>
<thead>
<tr>
<th>DEGREE FIELD</th>
<th>PHYSICAL SCIENCE</th>
<th>BIOLOGICAL SCIENCE</th>
<th>VERBAL REASONING</th>
<th>SUM OF 3 SCORES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics</td>
<td>10.8</td>
<td>10.8</td>
<td>9.9</td>
<td>31.5</td>
</tr>
<tr>
<td>Physics</td>
<td>11.1</td>
<td>10.4</td>
<td>9.8</td>
<td>31.3</td>
</tr>
<tr>
<td>Biomedical</td>
<td>11.1</td>
<td>10.6</td>
<td>9.6</td>
<td>31.3</td>
</tr>
<tr>
<td>Biomedical</td>
<td>10.9</td>
<td>10.1</td>
<td>9.4</td>
<td>30.4</td>
</tr>
<tr>
<td>Engineering</td>
<td>10.6</td>
<td>10.4</td>
<td>9.3</td>
<td>30.3</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>10.1</td>
<td>10.6</td>
<td>9.5</td>
<td>30.2</td>
</tr>
<tr>
<td>English</td>
<td>9.6</td>
<td>10.1</td>
<td>10.2</td>
<td>29.9</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>10.1</td>
<td>10.4</td>
<td>9</td>
<td>29.5</td>
</tr>
<tr>
<td>Chemistry</td>
<td>9.5</td>
<td>10</td>
<td>9</td>
<td>28.5</td>
</tr>
<tr>
<td>Premedical</td>
<td>9.2</td>
<td>10.1</td>
<td>8.8</td>
<td>28.1</td>
</tr>
<tr>
<td>Microbiology</td>
<td>9.1</td>
<td>9.6</td>
<td>9.1</td>
<td>27.8</td>
</tr>
<tr>
<td>Psychology</td>
<td>9</td>
<td>9.7</td>
<td>8.7</td>
<td>27.4</td>
</tr>
<tr>
<td>Biology</td>
<td>8.3</td>
<td>8.9</td>
<td>8.1</td>
<td>25.3</td>
</tr>
<tr>
<td>All Majors</td>
<td>9.5</td>
<td>9.9</td>
<td>9</td>
<td>28.4</td>
</tr>
</tbody>
</table>

**NOTE:** Sorted by total score and based on test takers who applied to Medical School. The MCAT test at the time had 3 sections noted, but also a writing sample (not included here). Each section had a potential score range of 1-15.

Source: AIP, Focus on MCAT, LSAT and Physics Bachelor's, 2013
Surprising Facts: Law

Physics Majors and Law School

Physics majors get very high scores on the LSATs.

<table>
<thead>
<tr>
<th>Degree Field</th>
<th>Average Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
<td>162.2</td>
</tr>
<tr>
<td>Physics</td>
<td>162.1</td>
</tr>
<tr>
<td>Economics</td>
<td>159.1</td>
</tr>
<tr>
<td>Engineering</td>
<td>157.3</td>
</tr>
<tr>
<td>Chemistry</td>
<td>156.7</td>
</tr>
<tr>
<td>History</td>
<td>156.7</td>
</tr>
<tr>
<td>English</td>
<td>155.8</td>
</tr>
<tr>
<td>Biology</td>
<td>155.2</td>
</tr>
<tr>
<td>Political Science</td>
<td>154.3</td>
</tr>
<tr>
<td>Psychology</td>
<td>153.3</td>
</tr>
<tr>
<td>Computer Science</td>
<td>152.3</td>
</tr>
<tr>
<td>Pre-Law</td>
<td>149.0</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>145.6</td>
</tr>
<tr>
<td><strong>All Majors</strong></td>
<td><strong>153.6</strong></td>
</tr>
</tbody>
</table>

**NOTE:** Based on test takers who applied to Law School. The LSAT is a standardized test and raw scores are converted to a scale that ranges from 120 to 180.

Source: AIP, Focus on MCAT, LSAT and Physics Bachelor’s, 2013
Surprising Facts: Salaries

Physics Majors and Earnings

Physics bachelors earn comparatively more.
Physics Majors Help Others

Improving people’s health

Diagnosis and treatment of illness, for example:
- Cancer treatment using radiation, new nanobot technology to target individual cancer cells
- Body imaging using X-rays, ultrasound, NMR and PET scans
- New methods using infrared light to monitor our blood

Addressing environmental issues

Energy needs and climate change effects, for example:
- New renewable energy technology
- Climate change effects on humans, animals (e.g., penguin populations), and land (size of the Sahara Desert)
- Environmentally friendly transportation methods

And many more…
Surprising Facts: Helping Society

This is what you can do with a physics degree...

Physics

- **CLASSICAL MECHANICS**
  - Biomedical Engineer
    - (ex. Building prosthetics)

- **LAB AND MATH SKILLS**
  - YouTuber
    - (educational videos)
  - Education Policy Advocate
  - Health Data Analyst
  - Policy Advocate
    - (Environmental Laws)

- **ELECTROMAGNETISM**
  - Medical Physicist
    - Cancer treatment
    - infrared blood monitors
    - X-ray, MRI, sonogram

- **THERMODYNAMICS**
  - Environmental Scientist
    - (renewable Energy Sources)
  - Environmental Transportation Scientist

- **QUANTUM**
  - Quantum Computing

...and many more
Students who earn a degree in physics:

Have high employment and job satisfaction.
Work in many different sectors (STEM/non-STEM).
Gain skills that give them a competitive edge for medical and law school.
Earn comparatively higher salaries than most other bachelor’s degrees.
Have an opportunity to help society in substantial ways.
Surprises?

What surprised you about the:

Areas in which physicists work?
Skills physicists apply working in such diverse areas?
Benefits physicists can have on the lives of others?
References


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