

Why Should **YOU** Major in
Mathematics or Statistics at **IUPUI**??

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IUPUI

Math Club

October 12, 2010

Why are you at **IUPUI**??

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To Have FUN!!

Why are you at **IUPUI**??

- **Develop many aspects as a person**

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- **Get an education**

Learn how to learn!

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Learn how to learn!

- **Prepare for the future generally**

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- Develop many aspects as a person
- Get an education

Learn how to learn!

- Prepare for the future generally
- Prepare for a career

with the understanding that

it is rare to have only one career

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Even if you haven’t experienced it yet, **YES!!!**

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Math graduate students must create new mathematics to get their PhDs!

And undergraduates at **IUPUI**, like yourself (!), are engaged in the creation of new mathematics!

This **new** mathematics is important in your everyday life!

COMPUTERS!!! Mathematicians Alan Turing and John von Neumann, in the 1930's and 40's, provided the theoretical foundation for the overall design operation of the digital computers we use today and were involved building some of the first computers.

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Your **ATM and internet security** uses encryption based on the work of mathematicians Ron Rivest, Adi Shamir, and Leonard Adelman at MIT, announced in 1977, and based on advances in number theory. The RSA cryptosystem and related ideas are the basis for much of the work done now on data and communications security worldwide.

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Google runs on linear algebra developed in your lifetime!

BUT most people just don't know about any recently invented mathematics or any unsolved mathematical problems!

Don't mistake not knowing about these things
to be evidence they don't exist!

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More importantly, in every edition since the first in 1988, **Mathematics** has been a central part of more than half of the top ten jobs in their ratings!

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Stochasticity (probability & statistics) will be everywhere

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You should prepare with an eye to YOUR future!

Links:

www.math.iupui.edu/~ccowen/Careers.html

www.math.iupui.edu/~ccowen/CoolMathLinks.html