

# School of Health and Natural Sciences



## New Academic Programs

April 18, 2018



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# School of Health and Natural Sciences

## Desirable Attributes:

- Distinctiveness
- Employability Potential
- Need
- Building on USJ Strengths



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# School of Health and Natural Sciences

- BS in Computer and Data Science
- BS in Health Science
- BS in Bioinformatics
- Master in Public Health

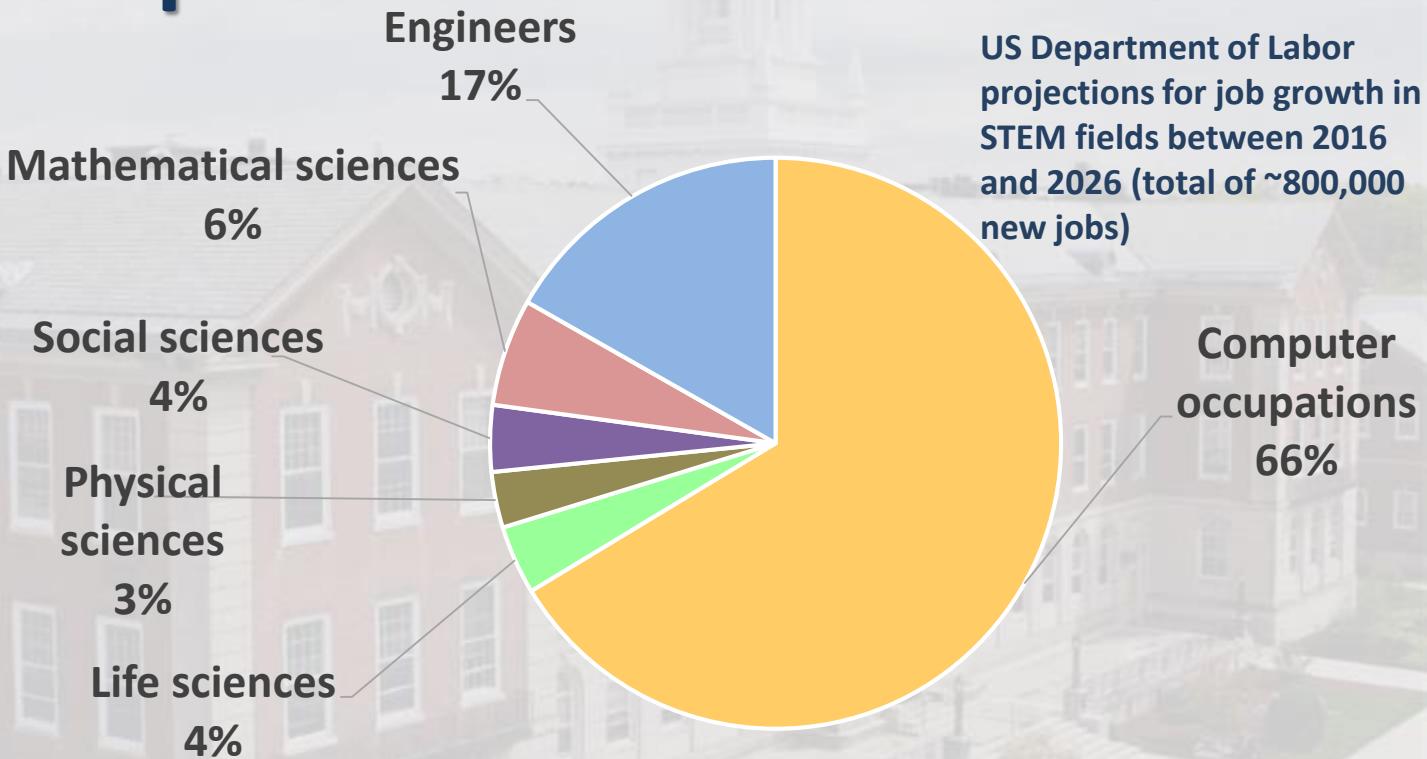


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# School of Health and Natural Sciences

## BS - Computer and Data Science

In 2016, 7000 open computing jobs in CT and 520 computer science graduates (CT Dept of Economic and Community Development)



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## BS - Computer and Data Science

**The dual focus on software development and data science is unique in Connecticut**

- This combination of skills is highly attractive to employers who are increasingly inclined to use data-driven and evidence-based decision-making.
- In the Finance and Insurance industry, Data Science and Analytics jobs account for 19% of all openings (*The Quant Crunch: How the Demand for Data Science Skills is Disrupting the Job Market - IBM study, 2017*)



# School of Health and Natural Sciences

## BS - Health Science

- Interdisciplinary - Biology, Chemistry, Nutrition, PH
- Two Tracks:
  - General Track
    - 8 semesters
    - Non clinical, entry level positions in healthcare, health education, community, health insurance industry
    - Preparation for graduate degrees in science, pharmacy, PA, and allied health programs



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# School of Health and Natural Sciences

## BS - Health Science

- Pre-PA Track
  - 7 semesters
  - Direct entry for freshmen into the USJ Masters in PA studies if they meet admission criteria and yearly benchmarks
  - Start the PA program in second semester senior year
  - Attract academically strong students from a wide geographical region

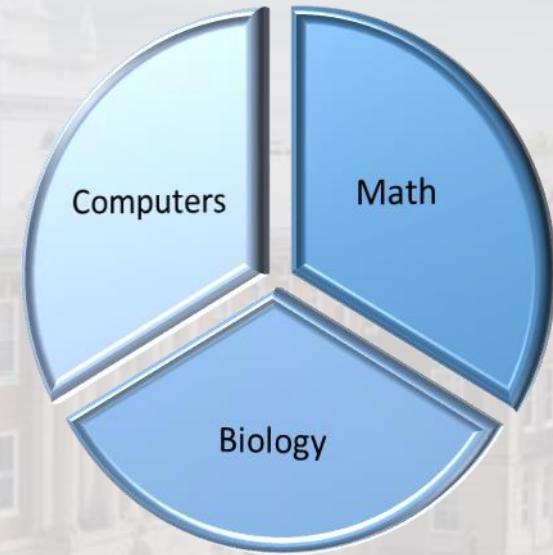


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# School of Health and Natural Sciences

## BS - Bioinformatics

- Interdisciplinary – uses techniques from applied mathematics, statistics, computer science, chemistry, biology, and biochemistry to solve biological problems
- Provides students with the specific computer and laboratory skills needed for employability in analytical science positions in industry and laboratories



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# School of Health and Natural Sciences

## BS - Bioinformatics

- **Growth in big data analysis** in the health and bioscience research fields is driving a career explosion in bioinformatics  
(Science Magazine, 2014, [Explosion in bioinformatics careers](#) visited October 25, 2017)
- The first B.S. program in Bioinformatics in CT
- Would work synergistically with the new program in Computer and Data Science as well as our existing programs in Biology, Chemistry, and Mathematics



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# School of Health and Natural Sciences

## Master in Public Health (MPH)

- Public Health is the science and art of protecting and enhancing the health of human populations
- MPH is the primary professional degree
- Graduates employed in health departments, non-profits, and healthcare organizations
- One of the fastest growing degree programs nationally
- Accredited Program
- B.S. in Public Health offered starting in Fall 2013



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# School of Health and Natural Sciences

## Master in Public Health (MPH)

- Mission Fit
  - Public health practitioners evaluate and respond to community needs and promote equity in health
  - Promotion of health equity, and social justice incorporated into all areas of the curriculum
- Meets needs of non-traditional students
  - Fully online
  - Part time
- 42 credits (7 semesters including 2 summers)
  - 24 credits didactic courses, 9 to 12 credits electives, 6 to 9 credits experiential learning and capstone or thesis (in local organizations)



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***Thank you for your attention and support***

*Raouf Boules, Dean  
School of Health and natural Sciences*



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