

CSP SCIENCE



COMPREHENSIVE PROGRAM REVIEW SUMMARY - 2017-2018

RESEARCH

- 2 research programs, led by faculty, focusing on tissue engineering, Parkinson's disease, liver cancer, and the human microbiome, with some external funding
- One semester of research is now *required* for Biology B.S.

COMMUNITY

- Majors and alumni photo boards to keep track of students, weekly in-house Study Nights, tutoring TAs, #iamsience monthly seminars, Tetra Delta Science Club, career preparation throughout curriculum, annual poster sessions and #cspdayofscience

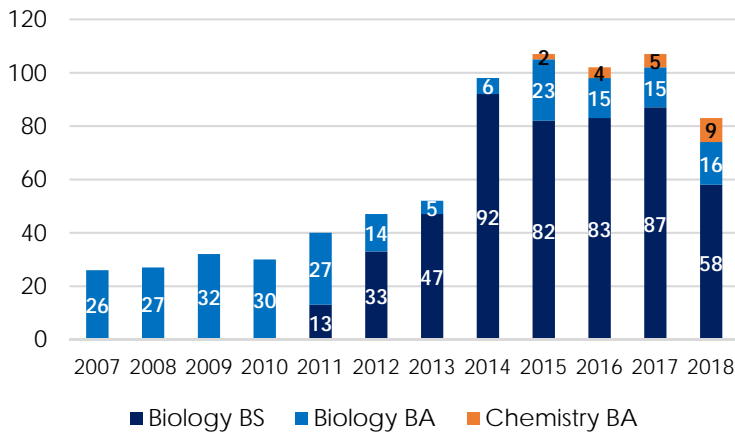
ACTIVE LEARNING

- Classroom and lab renovations to encourage group work and student engagement, maximum class size of 24

Degree	First Offered	Length of Program
Biology B.A.	1978-1979	~40 years
Biology B.S.	2009-2010	8 years
Chemistry B.A.	2015-2016	2 years

GOAL 1: GROW ENROLLMENT

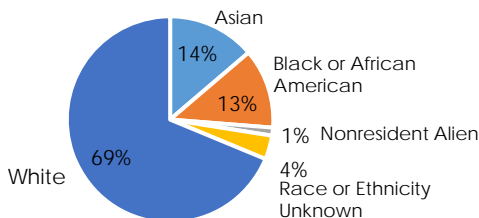
SCIENCE DEPARTMENT MAJORS BY YEAR



Ethnicity of Science Majors (2012-2017)

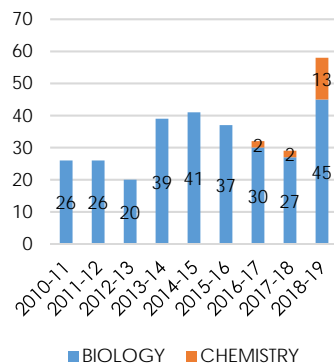
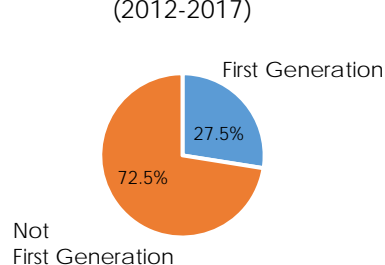
Average ACT score: 23

Average High School GPA: 3.5



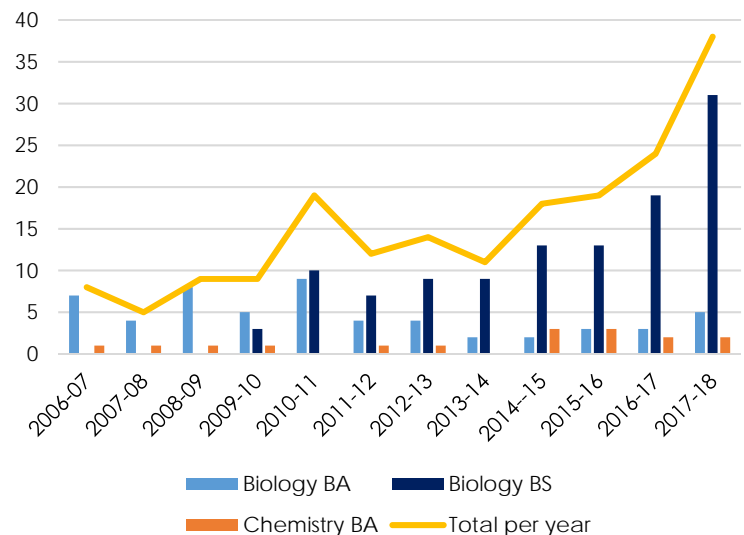
Generational Status of Science Majors (2012-2017)

FALL ADMISSION NUMBERS FOR SCIENCE



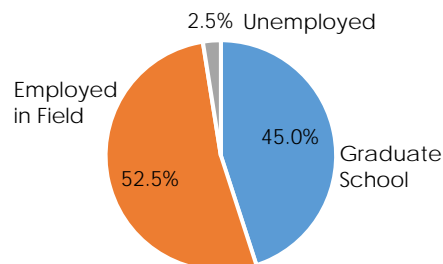
GOAL 2: INCREASE PERSISTENCE TO GRADUATION

SCIENCE DEPARTMENT GRADUATES PER YEAR



GOAL 3: INCREASE TRANSITION TO JOB OR GRADUATE SCHOOL

Graduates (2015-2017)



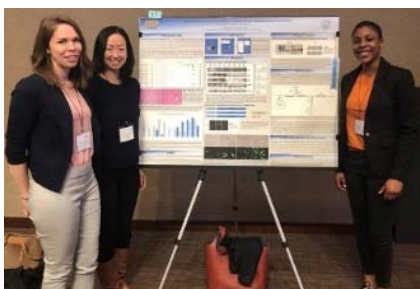
Tori Schultz
Kyle Lohman
Mike Yahnke
Frankie Munkwitz
Riley Hanson
*Adam Hildebrandt



Zach Rengel
Asma Adam

Pharmacy School: Alahna Anderson, Elena Koncar, *Briana Holtmeier, *Ben Lawrence, *Sara Finseth
Physician Assistant Programs: Lisa Atkinson (CVS), Rachel Gratz, Anika Whiting, *Sara Kivisto, *Joseph Thompson
Physical Therapy: Jonathan Erber, Maddy Swain, *Jennifer Miller
Genetic Counseling: Christina Miller (HealthPartners)

CSP SCIENCE



GOAL 1: GROW ENROLLMENT

The University goal is to grow from 1,500 to 2,000 traditional undergraduate students (an increase of approximately 140%).

Our 3 year target is to grow biology by 140% (100 majors to 140 majors) and chemistry by 200% (5 majors to 10 majors).

Our 6 year target is to grow biology by 200% (100 majors to 200 majors) and chemistry by 400% (5 majors to 20 majors).

Final targets: 200 biology majors and 20 chemistry majors = 220 majors total by 2023-2024.

Main Action Steps:

1. Increase science-specific marketing, showcasing our research opportunities, community, and active learning.
2. Build relationships with local community colleges.
3. Build relationships with local high schools.
4. Develop a summer research camp for high schoolers.
5. Increase our community outreach.

GOAL 2: INCREASE PERSISTENCE TO GRADUATION

The University goal is to increase the 5 year completion rate to 65%. We believe, based on a recent trend of students looking to graduate in less than 4 years, that this is a feasible goal for our programs.

Main Action Steps:

1. Increase the science-specific scaffolding offered to our students (strengthen Study Nights, continue to develop tutoring TAs).
2. Develop our adjunct faculty (mentoring, faculty coffee hours as monthly check-ins).
3. Develop a discipline-based educational research culture in the department, as a way to determine and utilize best practices for science teaching.
4. Create a Science Success Center in our building.

GOAL 3: INCREASE TRANSITION TO JOB OR GRADUATE SCHOOL

The University goal is to increase transition to a job, graduate program, internship, or military position by 90% within 9 months of graduation. We believe this is a feasible goal for our programs, based on surveying our graduates. We will define those students that elect to take a 'gap year' or two as successfully transitioning, as their choice to take time between college and graduate school is what they intend to do post-graduation.

Main Action Steps:

1. Continue to build and develop our research programs.
2. Build career preparation into the chemistry curriculum or into an overall program curriculum.
3. Revise curricula to reflect current market demands.
4. Develop additional dual degree graduate program partnerships.
5. Secure external funding for summer research opportunities and needed equipment.