The Jess and Mildred Fisher College of Science and Mathematics
Welcomes You!

Dr. David A. Vanko, Dean

Dr. Vonnie Shields, Associate Dean

http://www.towson.edu/fcsm/
Our Departments

Biological Sciences
Dr. Laura Gough, Chairperson
lgough@towson.edu
http://www.towson.edu/biology/

Chemistry
Dr. Ryan Casey, Chairperson
rcasey@towson.edu
http://www.towson.edu/chemistry/

Physics, Astronomy & Geosciences
dschaefer@towson.edu
Dr. David Schaefer, Chairperson
http://www.towson.edu/physics/

Mathematics
Dr. Mike O’Leary, Chairperson
moleary@towson.edu
http://www.towson.edu/math/

Computer & Information Sciences
Dr. Sidd Kaza, Chairperson
skaza@towson.edu
http://www.towson.edu/cosc/

FCSM Advisor
Ms. Denise McGill
dmcgill@towson.edu
Interdisciplinary Programs

**Environmental Science & Studies [ESS]**
Dr. Chris Salice, Director
csalice@towson.edu
http://www.towson.edu/ess/

**Molecular Biology, Biochemistry & Bioinformatics [MB3]**
Dr. Nadim Alkharouf, Director
nalkharouf@owson.edu
http://www.towson.edu/mb3/

**Towson UTeach**
*(Increasing number of STEM high school teachers)*
Dr. Linda Cooper, Director
Dr. Christine Roland, Director
lcooper@owson.edu; croland@towson.edu
http://www.towson.edu/fcsm/departments/uteach
Pre-Professional Programs

Pre-Medical and Pre-Dental Program
Dr. Laura Martin, Director
lmartin@towson.edu
pre-professional@towson.edu

Pre-Pharmacy Preparation
Pre-Pharmacy Preparation
Dr. Ana-Maria Soto, Director
asoto@towson.edu

Pre-Physician Assistant Preparation
Pre-Pharmacy Preparation
Ms. Stella Evans, Director
sevans@towson.edu

Pre-Veterinary Preparation
Ms. Christa Partain, Director
cpartain@towson.edu
The New Science Complex

- The New Science Complex will be the largest academic building on TU's campus and will contain:
  - 50 teaching laboratories
  - 30 research laboratories
  - 50 classrooms
  - 10 collaborative student spaces
  - 8 lecture halls
  - 1 outdoor classroom leading into the Glen Arboretum
STEM Programs

- **Bridges Programs** (Bridges to Baccalaureate & Bridges to the Doctorate Programs)
- **Preparing Pre-Service K-12 Teachers** (Science Ed, Math Ed)
- **TU Research Enhancement Program** (HHMI-TU REP; engage in authentic research laboratory Course-based Undergraduate Research Experiences/CURE classes) (TUREP@towson.edu)
- **STEM Residential Learning Community** (connect with other students; Dr. Sharlene Roberson)
- **STEM Teaching Community** (collaboration between faculty members and Learning Assistants) (Dr. Cody Sandifer)
- **Towson Opportunities in STEM** (NSF-TOPS; learning community of STEM student from underserved communities; Dr. Sharlene Roberson)
- **Women in Science** (enhance recruitment and retention of female students; Drs. Peko Tsuji & Cindy Ghent)
- **Hill-Lopes Scholars Program** (support female students in STEM; Drs. Peko Tsuji, Cindy Ghent, & Beth Kautzman)
Additional Faculty Areas of Expertise or Academic Programs:

- Forensic Chemistry
- Environmental Science
- Applied Mathematics
- Nanotechnology
- Science and Mathematics Education
- Center of Actuarial Excellence- 1 of 15 schools in the country to earn this recognition
FCSM Student Clubs

- Beta Beta Beta Biological Honor Society- Upsilon Eta Chapter (Biology)
- Pre-Med-Pre-Dent Club
- Pre-Pharmacy Club (Chemistry)
- Student Affiliates of the American Chemical Society (SAACS) (Chemistry)
- Upsilon Pi Epsilon Honor Society (Chemistry, CIS)
- Actuarial Science and Risk Management Club (Math)
- Math Club
- Math Ed Club
- Society of Physics Students/SPS (PAGS)
- Department of Computer and Information Sciences Tech Club (CIS)
Undergraduate Research Opportunities

• Independent research activities or internship opportunities in collaboration with faculty in FCSM or outside of FCSM
• Competitive research & travel awards available both from FCSM and OURCI (Office of Undergraduate Research & Creative Inquiry)
• Research funds may be used to purchase supplies, software, equipment, etc.
• Travel funds may be used to contribute to present research at a conference locally, nationally, and/or internationally
• Opportunities at the Glen Arboretum & TU Field Station
• Get involved in a FCSM student club
Fisher Scholarship & Award Opportunities

- Undergraduate Research & Travel Awards

- Jess Fisher, Class of 1934 Pre-Engineering Scholarship (career in engineering; continuing scholarships available)

- Jess Fisher, Class of 1934 Fisher College of Science and Mathematics Scholarship (FCSM major; full in-state tuition and fees; continuing scholarships available) (http://www.Towson.edu/fcsm/FisherScholarshipProgram/; FisherScholarships@towson.edu)

- Michele Cooper Scholar (continuing scholarships available as well)

- Willard Hackerman Scholarship (Baltimore Polytechnic Institute specific; continuing scholarships available as well)
Departmental Scholarships & Award Opportunities

• **Biological Sciences:** Carl Henrikson, Compton N. Crook, John David Horst, James Moniodis, James Ewig, Lois D. Odell, Betty Dale, Mary-Scarborough Carr, Wendy M. & Jeffrey C. Miller, Wilfred B. Hathaway, Biology Alumni

• **Chemistry:** SAACS, Achievement in Organic Chemistry, American Chemical Society Division in Analytical and Organic Chemistry, CRC Press Freshman Chemistry Achievement Award, Gibb Award, Greater Washington Institute of Chemists, Maryland Section of American Chemical Society, Excellence in Inorganic Chemistry, POLYED Undergraduate Award in Organic Chemistry, Student Affiliates of the ACS, Ronald & Linda Raspet, Linda Sweeting, Floyd Blakenship, Frank R. Milio, Alan & Eileen Wingrove
Departmental Scholarships & Award Opportunities

- **Mathematics:** Ann L. Wagner, Joyce C. Neubert, Eunice Bowers & Karl Otto Schmied, Dollenberg, Marie D. Rutenbergs, Mary Hudson Scarborough, Mildred T. Becker, Department of Math Scholarship

- **Computer & Information Sciences:** Doris K. Lidtke, Smith, Applied Information Sciences, Wendy & Larry Letow, James W. Smith, Association of Old Crows, Applied Information Sciences, Cyber Corps, Mary Hudson Scarborough, Mid-Atlantic CIO Forum, Porter Family

- **Physics, Astronomy and Geosciences:** Eddie Loh, Edward I. Rubendall, Geoscience Achievement, Mineralogical Society of America, William F. Pelham
• **Towson UTeach**: Dollenber Family Scholarship, Dr. Carol L. & Robert E. Daihl, Dr. George E. Holhl & Anne S. Hohl, Kahlert Foundation, R. Elizabeth Remsberg, Towson UTeach General Endowment

**STEM Program Award/Scholarship Opportunities**

• **STEM Program Awards**: Scholars Aspiration, Scholars Award for Academic Excellence, TOPS Aspiration Award, TOPS Outreach Award, TOPS Peer Mentor Award, TOPS Scholar Award, STEM Scholars Residential Learning Community Peer Mentor Award

• THERE ARE MANY MORE LOCAL/NATIONAL/INTERNATIONAL SCHOLARSHIP OPPORTUNITIES AS WELL!
WE HOPE YOU WILL JOIN OUR TOWSON UNIVERSITY FAMILY!

Thank You! Stay Safe!

http://www.towson.edu/fcsm/