



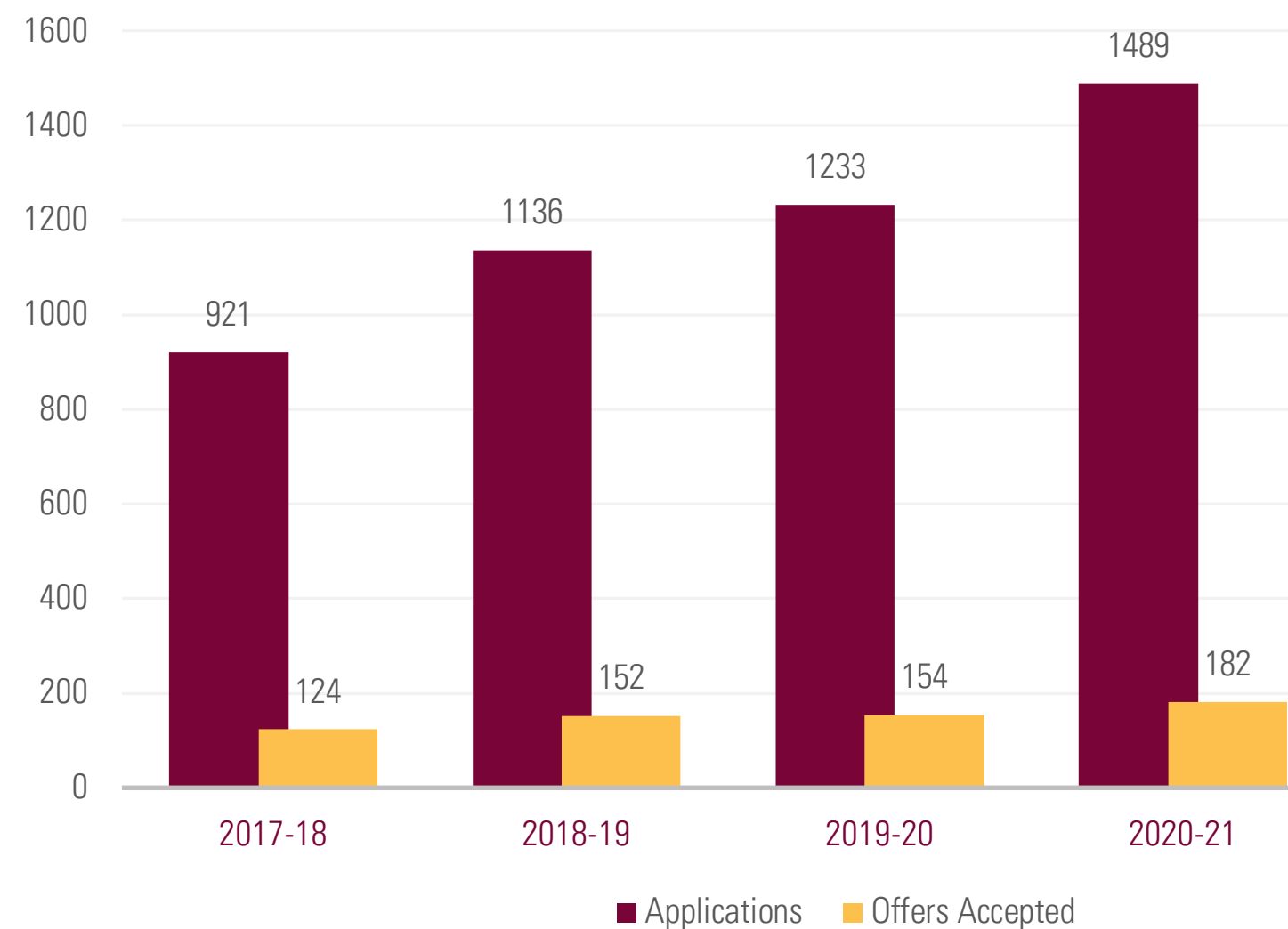
Integrated Biomedical
Engineering & Health
Sciences Program



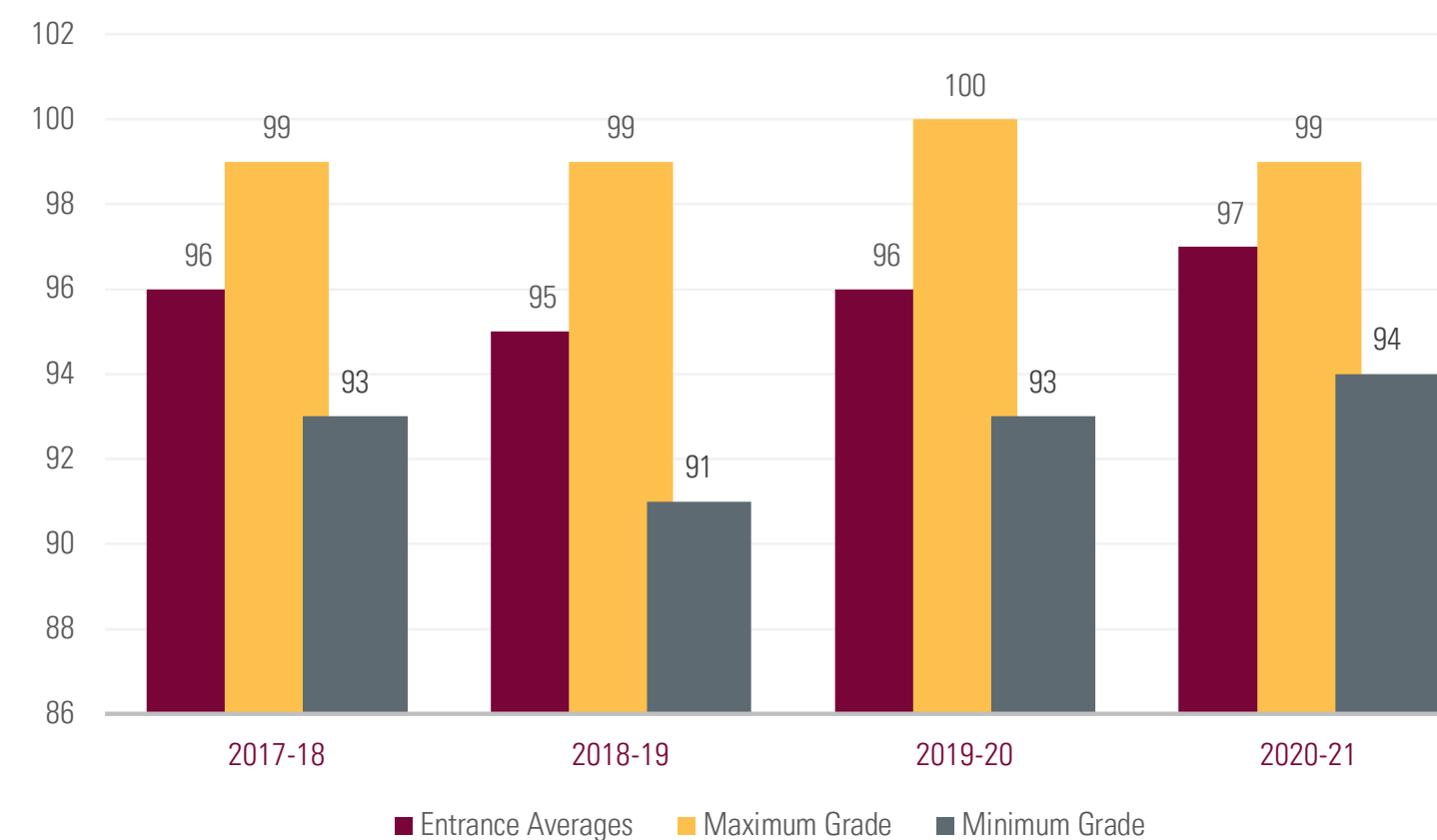
MAC IBIOMED ANNUAL REPORT

2020-21 Academic Term

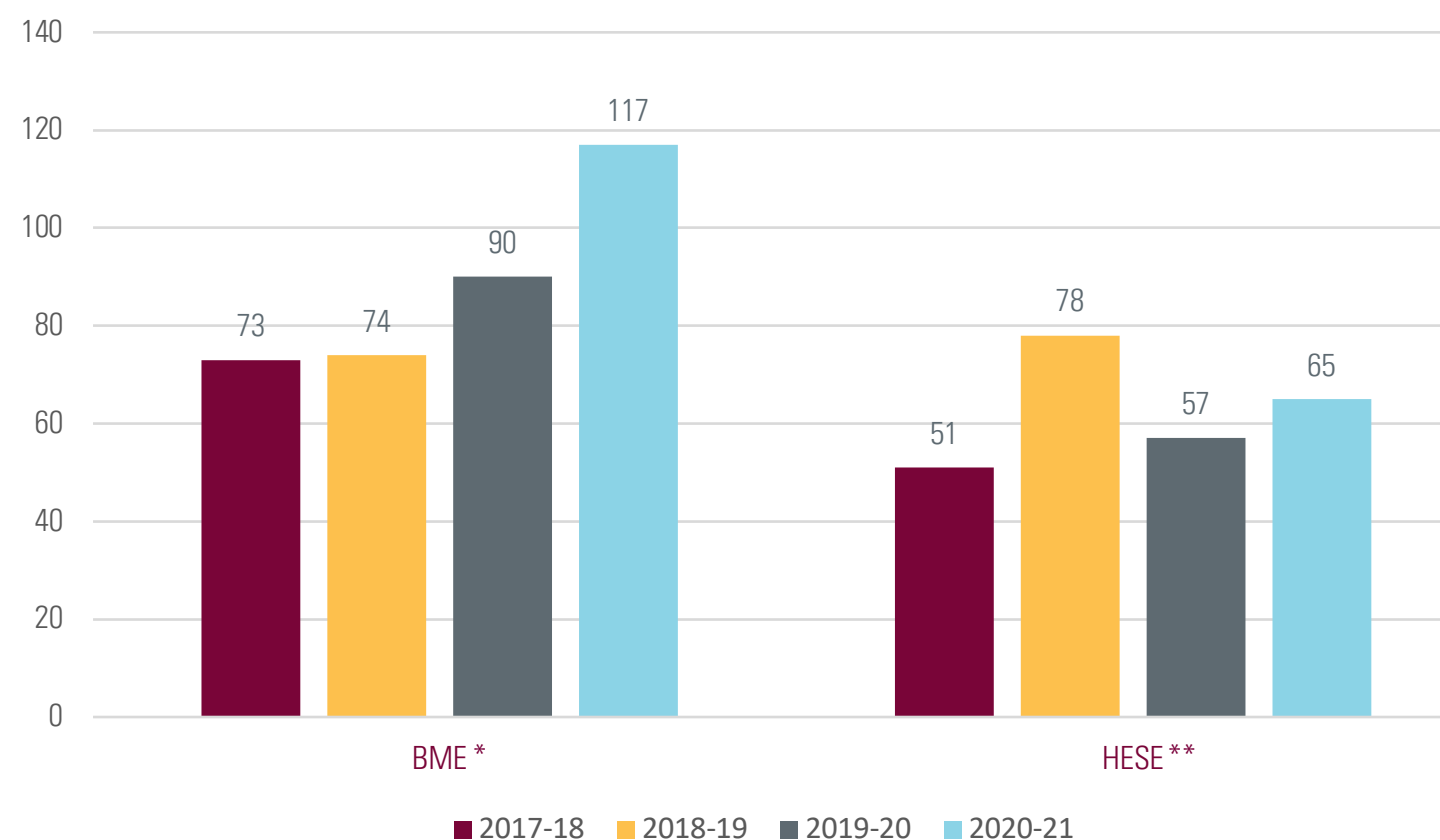
APPLICATIONS & ADMISSIONS



ENTRANCE AVERAGES

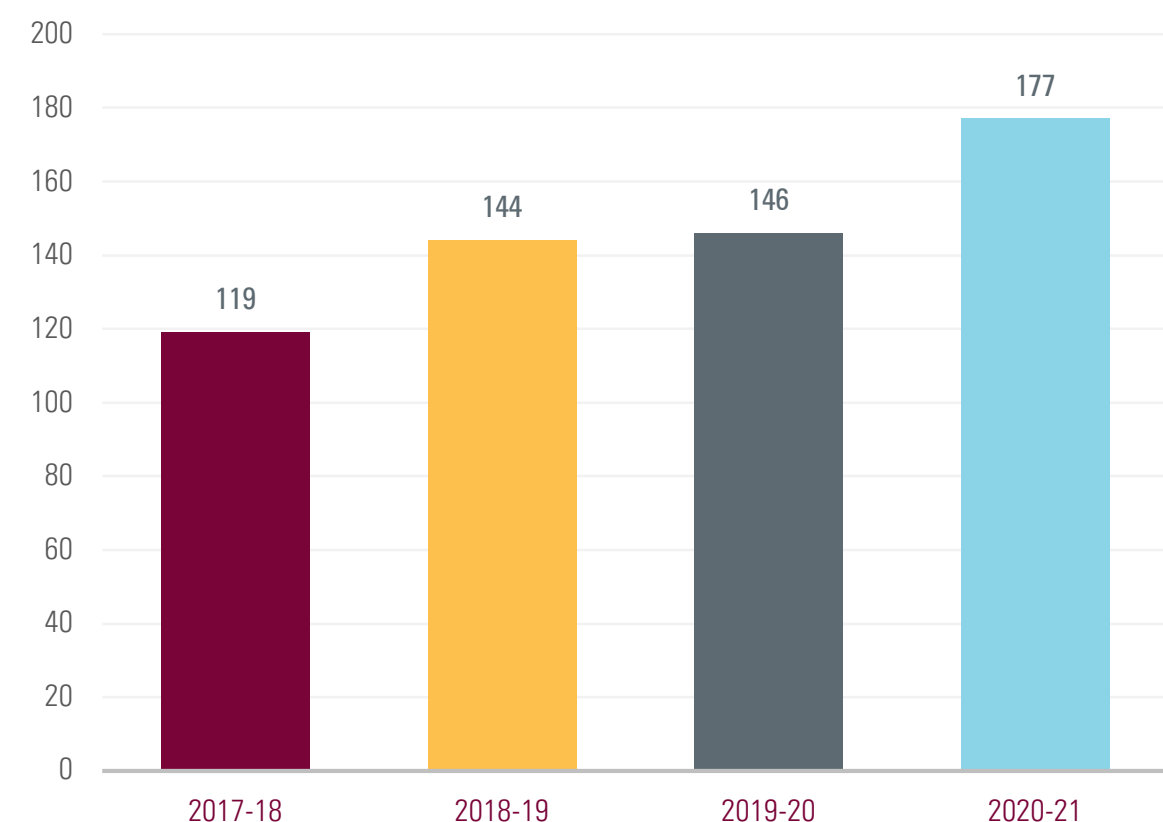


SUBJECT OF MAJOR INTEREST UPON ENTRANCE

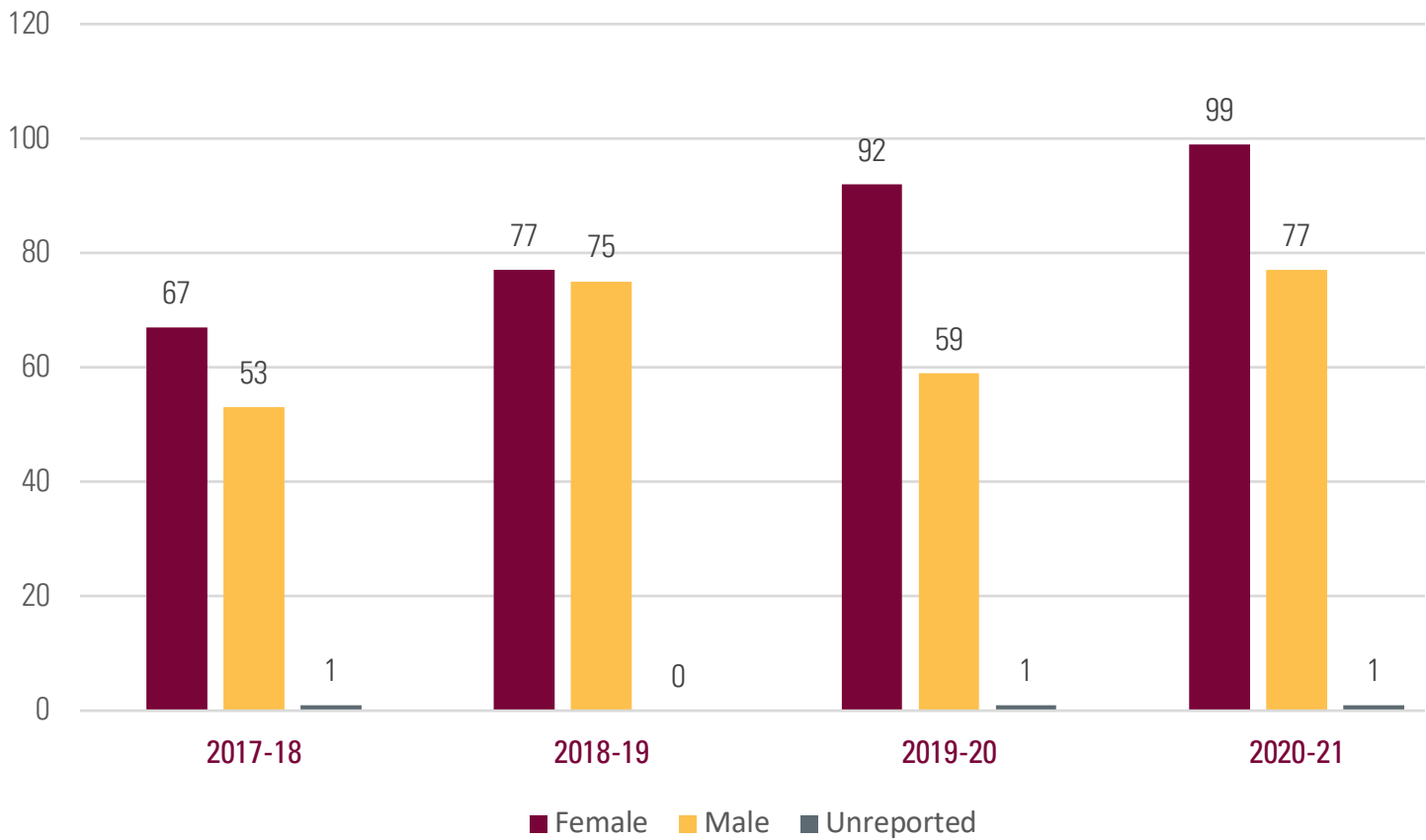


*Biomedical Engineering **Health, Engineering Science and Entrepreneurship

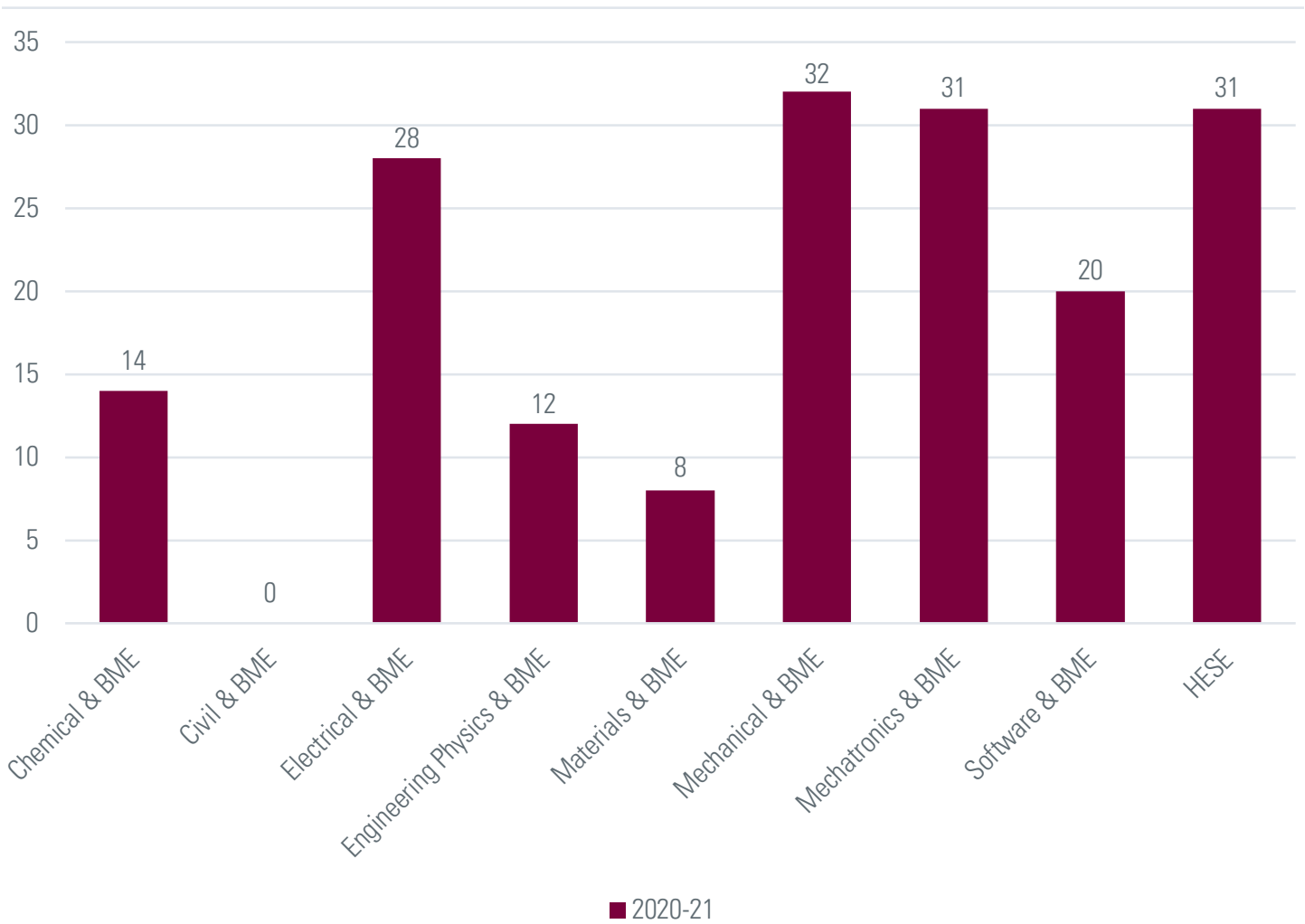
UNDERGRADUATE ENROLMENT HEADCOUNT



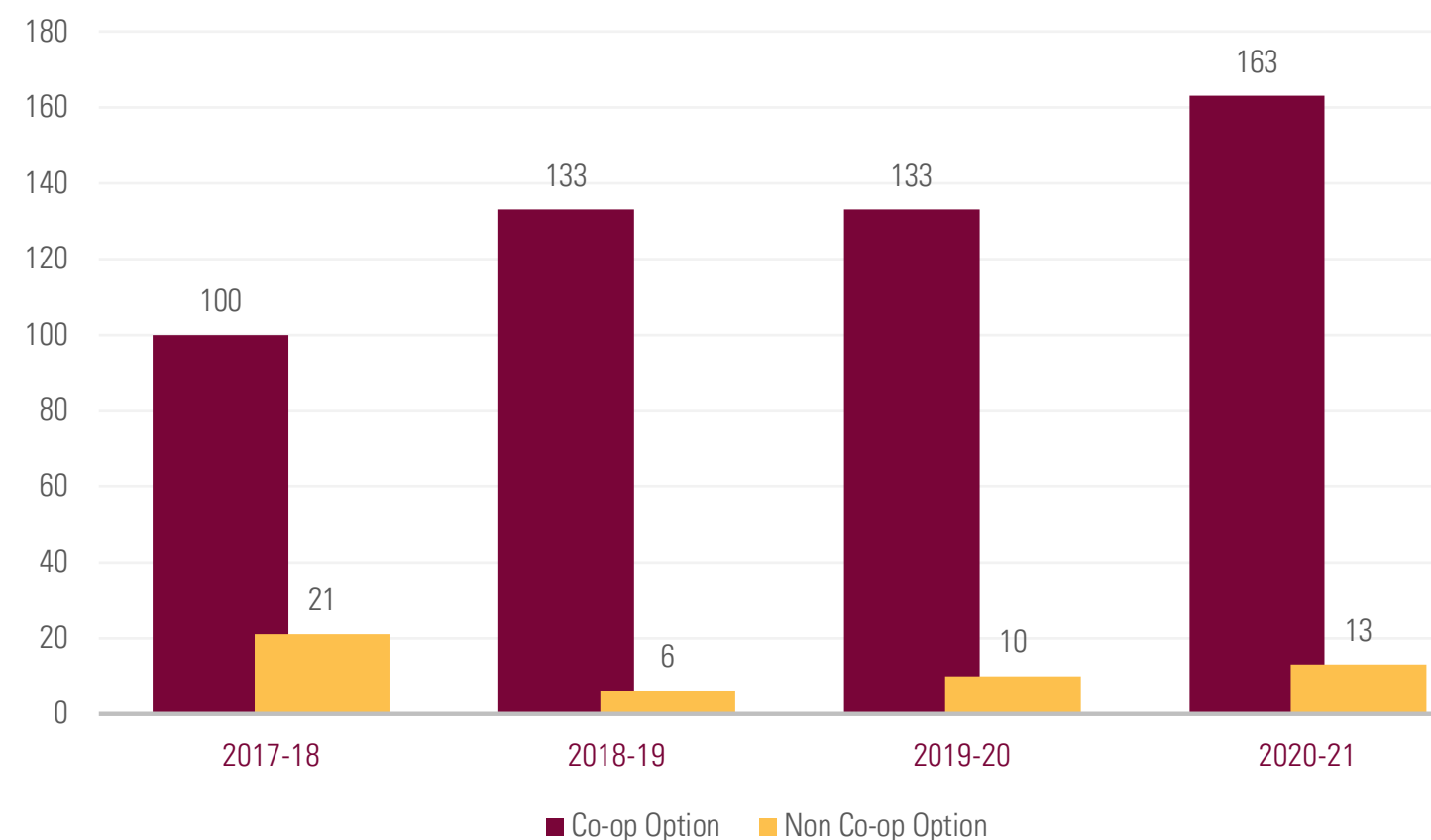
LEVEL I STUDENT GENDER RATIO



LEVEL II PROGRAM ALLOCATION



LEVEL I CO-OP PROGRAM SELECTION



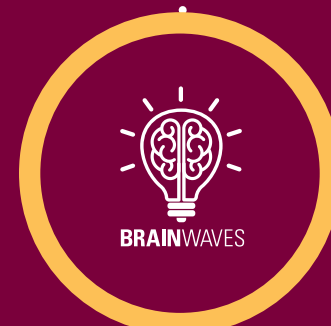
STUDENT ACHIEVEMENTS



David Chung (IBEHS I) received the **TD Scholarship for Community Leadership** (valued at \$70,000) and the **Horatio Alger National Entrepreneurial Scholarship** (valued at \$10,000) among several others.



Twelve iBioMed students received the 2020 Summer Research Experience Award



iBioMed launched Brainwaves, the official podcast of the iBioMed Program. iBioMed students develop the content, host episodes, secure and interview guests, and edit each episode.

STUDENT ACHIEVEMENTS



Lianna Genovese (Level IV, Mechanical & BME) won the Global Innovation Award and National James Dyson Award for her invention Guided Hands.



Rebecca Sikkema (Level II, Materials & BME) published a review paper on Advanced Engineering Materials.



Monica Banayoty (Level IV, HESE) was selected as a Wilson Scholar

STUDENT ACHIEVEMENTS



Daniel D'Souza (Level III, HESE) received the McMaster Student Union (MSU) Teaching Award for the Winter 2021 term.



Andrew D'Elia (Level III, Materials & BME) was second-author on the review paper "Electron Microscopy Imaging Applications of Room Temperature Ionic Liquids in the Biological Field—A Review" in publication ChemBioChem.



John Milkovich (Level III, HESE) was first-author of a paper on Restructuring Skin Cancer Care in Ontario.

STUDENT ACHIEVEMENTS

in numbers!

- 19

The number of iBioMed students that made the **Provost's Honour Roll***
- 3

The number of iBioMed students accepted into **medical school**.
- 2

The number of iBioMed students accepted into **graduate school**.

*Students are awarded the Provost's Honour Roll when an average of 12.0 is achieved.

IBIOMED SOCIETY HIGHLIGHTS



The iBioMed Society hosted the "Lecturer Series" where instructors, entrepreneurs, clinicians and researchers from various backgrounds gave talks about their research and career paths.



1P10 exam review sessions were held, and students were provided with a guided review of core concepts covered through the course. Students also had the opportunity to ask their TAs course-related questions.



In collaboration with the B-Tech Association, biomedical and biotech industry professionals and students came together for an industry networking event.



Several social events such as Trivia Night, Games Night, E-Sports & Online Board Games were held giving students an opportunity to socialize and make new friends.

IBIOMED COMMUNITY HIGHLIGHTS

Events!



iBioMed monthly themed open houses were held virtually this year. Event themes included Halloween Murder Mystery, Virtual Paint Workshop, Fitness February and more!



Upper-year student-led info sessions gave first-year iBioMed students an opportunity to ask questions about stream options, co-op, student projects and clubs and teams.



On April 13th, IBEHS 1P10 students presented the **innovative projects** they worked on throughout the school year.

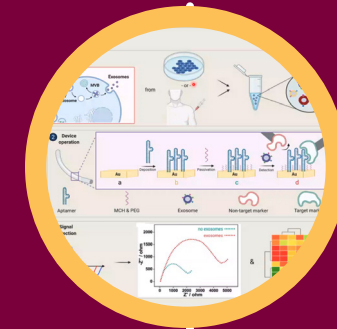
IBIOMED COMMUNITY HIGHLIGHTS

Events!



**IBEHS 2E06
PROJECT SHOWCASE**

Level II HESE students **worked with industry healthcare professionals** to develop solutions to healthcare needs. Students' solutions were then presented during a virtual presentation that showcased their innovative designs.



iBioMed spearheaded Design Like a Girl, an event for female-identifying high school students. **This two-day design-a-thon introduced attendees to coding, design thinking, sensors and more.** Attendees then worked in teams to develop solutions to real-world healthcare problems and pitched their solutions to a panel of iBioMed faculty and student judges.



Incoming iBioMed students participated in **CONNECT, a week-long summer skills workshop** where students are introduced to MATLAB, Python, Raspberry Pi and more!

IBIOMED COMMUNITY HIGHLIGHTS

Ambassador Program!



Brainwaves, the official podcast of the iBioMed program was launched. The content for this podcast is developed and edited by iBioMed Ambassadors.

Listen at <https://anchor.fm/mcmasteribiomed>



A content Creation Committee was established as part of the Ambassador Program. The content created by this committee is developed by students for students.

Read one of the committee's articles here: <https://www.eng.mcmaster.ca/ibiomed/news/kids-are-alright-inside-view-ibiomed-on-line-student-experience>



Virtual Ambassador Office Hours were offered, and iBioMed students had an opportunity to connect with their fellow peers to discuss classes, exams, program selection and to network.

IBIOMED COMMUNITY HIGHLIGHTS

New Course!



The iBioMed program is excited to introduce a new first year health sciences course, **IBEHS 1EP6 Entrepreneurship in Biomedical Innovation: From Bench to Market**. This course uses project-based learning to explore the latest in biomedical research, technology and innovation and pushes students to create pragmatic solutions to important healthcare problems.

Students work in small teams to **study specific human diseases, from diabetes to Alzheimer's**, and consider these diseases from a biological, clinical and socioeconomic perspective. By taking an interdisciplinary approach, students come out of the course with an appreciation of the 'big picture' and the important considerations when looking to go from idea to impact. Working closely in these small teams is also a great way to make friends!

This new course will be taught by Dr. Anna Korol, Assistant Professor, Department of Medicine, Division of Innovation and Education and Dr. Julian Yabut.

IBIOMED FAMILY UPDATES



Dr. Carol Bassim

The iBioMed Program is excited to welcome Dr. Bassim to the iBioMed family. Dr. Bassim will be the instructor for IBEHS 4C03: Statistical Methods in Biomedical Engineering.



Dr. Kenneth Owen

The iBioMed program is very excited to also welcome Dr. Owen to the family. Dr. Owen will be the instructor for IBEHS 4E06: Health, Engineering Science and Entrepreneurship III.



Andrej Rusin

After completing his MSc. from the Department of Biology at McMaster, Andrej joined the iBioMed family as its Laboratory Technician.



Dayna Wingfield

Dayna received her BSc. from Wilfrid Laurier and her BEd from The University of Waterloo. Before joining iBioMed, Dayna worked in London, England as a Curriculum Lead for high school science courses, and as a secondary teacher.

WE'RE SOCIAL

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Engineering & Health
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