

DIVISION: Division of the VP Academic and Provost

UNIT: Faculty of Science

PLAN ID: 1283

1. 21st Century Learning

Enhance the student learning experience.

Action/Strategy:

Develop new academic programs to meet (identified) labour market needs and student demand.

Measures/Metrics/Milestones:

- 1) Number of new programs researched.
- 2) Number of new programs developed and submitted to Senate for approval.

Evaluation Status:

On Track

Develop micro-credential courses/programs.

- 1) Number of micro-credential courses/programs developed.
- 2) Number of micro-credential courses/programs approved and offered.

On Track

Increase/enhance experiential opportunities for students.

- 1) List of all experiential opportunities available and the number of students participating in the experiences available (year over year).
- 2) Increased placement rate of eligible students.

On Track

Develop ONLN (online) courses and programs for Science.

- 1) Number of new ONLN courses developed for existing programs.
- 2) Develop one or more entirely ONLN HSc program(s).

On Track

Increase Student-Faculty interaction re: worked with faculty member on activities other than course work.

- 1) Increased NSSE score from baseline of 1.86/7 (from 2017 NSSE Survey).

Progressing

Establish Science at the Markham Centre Campus (MCC).

Action/Strategy:

Actively engage in planning for Science at the Markham Centre Campus (MCC).

Measures/Metrics/Milestones:

- 1) Develop unique UG science programs and courses for the MCC.
- 2) Investigate and develop professional degree programs for the MCC.
- 3) Investigate and develop micro-credential courses and programs for the MCC.
- 4) Investigate ways to incorporate science research at the MCC.

Evaluation Status:

On Track

2. Knowledge for the Future

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Enhance and grow research strength in Science.


Action/Strategy:

Increase the number of research chair holders.

Measures/Metrics/Milestones:

- 1) Maximize the number of Canada Research Chairs (CRC) allocated to Science.
- 2) Increased number of York Research Chairs (YRC) in Science.
- 3) Increased number of Endowed Research Chairs and Industrial Research Chairs (IRC) in Science.

Evaluation Status:

 On Track

Identify research clusters in Science that can be grown and strengthened.

- 1) Identify 2-3 strong research clusters over the next 5 years.
- 2) Prioritize hiring faculty members to the research clusters through the Complement Plan process.
- 3) The research clusters attract increased amount of research funds.

 On Track

Diversify sources of research funding.


Action/Strategy:

Establish research partnerships outside of tri-council funding sources.

Measures/Metrics/Milestones:

- 1) Increased number of research partnerships established that are not tri-council.
- 2) Increase the percentage of funds coming from non tri-council sources.

Evaluation Status:

 On Track

Increased opportunities for faculty, graduate and undergraduate students to participate in research activities.


Action/Strategy:

Investigate sources of funds and awards to make research opportunities and placements available.

Measures/Metrics/Milestones:

- 1) Number of faculty members securing a research award.
- 2) Number of graduate students securing a research award/placement.
- 3) Number of undergraduate students provided with a research placement.

Evaluation Status:

 On Track

3. From Access to Success

Ensure successful student transition from high school to university.

Action/Strategy:

Measures/Metrics/Milestones:

Evaluation Status:

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Develop enhanced learning courses/programs and supports for new incoming students.

- 1) Number of students registered for non-credit transition courses.
- 2) Performance of students completing the non-credit transition courses.
- 3) Courses and programs developed and offered.
- 4) Increased student preparedness after taking SMC courses.

On Track

Faculty complement renewal to focus on teaching and learning excellence.

- 1) Positive student evaluations for new faculty teaching.
- 2) Improved NSSE scores for faculty teaching satisfaction re: Effective Teaching Practices.

Progressing

Students have access to timely and excellent program and academic advising.

Action/Strategy:

Student advising services has accessible and knowledgeable staff who respond to student program and academic inquiries accurately and in a timely manner.

Measures/Metrics/Milestones:

- 1) Student satisfaction with advising services.
- 2) Student advising services effectively use early alert systems to identify academically at risk students and make early contact for supports.

Evaluation Status:

On Track

4. Advancing Global Engagement

Increase the number of international students enrolling in the Faculty of Science.

Action/Strategy:

Enhance international recruitment activities.

Measures/Metrics/Milestones:

- 1) Hire a Director focusing on international student recruitment for Science.
- 2) Director to hire Recruitment Officer and International Recruitment Manager team.
- 3) Diversify the countries our international students are coming from so we are not dependent on 1-2 countries for these students.
- 4) Increasing international UG student enrolment year over year.

Evaluation Status:

On Track

Increase the number of international research partnerships with Faculty of Science researchers and research teams.

Action/Strategy:

Seek new research partnerships with international collaborators.

Measures/Metrics/Milestones:

- 1) Number of international research partnerships established.

Evaluation Status:

On Track

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Strengthen the Faculty of Science commitment to Equity, Diversity and Inclusion (EDI)


Action/Strategy:

Establish Dean's Committee on EDI

Measures/Metrics/Milestones:

- 1) Establish 2020 baseline of EDI make up of Science faculty members.
- 2) Establish 2020 baseline of EDI make up of Science staff members.
- 3) Develop plan to address gaps in science EDI composition.
- 4) Provide EDI workshops.

Evaluation Status:

 On Track

5. Working in Partnership

Strengthen FSc engagement and profile through diverse partnerships.


Action/Strategy:

Establish new partnerships and associations.

Measures/Metrics/Milestones:


- 1) Engage and partner with our alumni in support of Science students and programs.
- 2) Partnerships with industry to enhance the quality of new or existing programs.
- 3) Engage in partnerships with internal divisions and Faculties to develop new programs or enhance existing programs.

Evaluation Status:

 On Track

Seek naming of the Faculty of Science and/or Departments.

- 1) Research and engage potential donor for major naming of the Faculty of Science.
- 2) Research and engage potential donor for naming of science departments.

 On Track

6. Living Well Together

Enhance the Science spaces environment.

Action/Strategy:

Prioritize and optimize Science assigned spaces.

Measures/Metrics/Milestones:

- 1) Review and analyze current space use in science.
- 2) Determine priority space requirements.
- 3) Plan to align space use with the determined priorities.

Evaluation Status:

 On Track

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Upgrade and refresh science spaces to make spaces more usable and comfortable for students, staff and faculty.

- 1) Renovation/refresh of science teaching lab space.
- 2) Renovation/refresh of staff work spaces.
- 3) Renovation/refresh of departmental space.

On Track

Strengthen staff and faculty commitment to the Faculty of Science and York University.

Action/Strategy:

Instill the concept of service excellence throughout the Faculty of Science.

Measures/Metrics/Milestones:

- 1) Complaints about instructors and staff decrease.
- 2) Retention of staff improves.
- 3) Retention of faculty members and instructors improves.

Evaluation Status:

On Track

Enhance the engagement level of faculty, staff, students, alumni and external partners with the Faculty of Science.

- 1) Opportunities to involve faculty, staff and students in FSc planning and events.
- 2) Involvement of alumni in FSc planning and events.

On Track

7. Answering the Call

Enhance quality of science education.

Action/Strategy:

Increase student success in science programs.

Measures/Metrics/Milestones:

- 1) Provide annual summer module courses in the science disciplines for incoming first year science and other students at York to improve understanding and transition to first year university programs.
- 2) Partner with other Faculties to provide summer module courses to ensure consistency of quality and efficiency.
- 3) Regular review and improvement of courses for quality and learning outcomes.

Evaluation Status:

On Track

Demonstrate the benefits of the science mindset to support the goals of critical thinking, responsible environmental stewardship, development of innovation, and feelings of personal agency to support UN SDGs amongst children and youth.

Action/Strategy:

Provide science enrichment programs for children and youth that support engagement in activities that develop critical thinking and personal agency.

Measures/Metrics/Milestones:

- 1) Offer and design programs for children and youth that maintain financial viability and that generate registrations at levels of 85% to 100% capacity.

Evaluation Status:

Progressing

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Offer programs that encourage pursuit of science by females and individuals from economically challenged backgrounds.

- 1) Creation of programs and sections that are designed to be attractive to female participants through female-only registration or programs geared to female participation.
- 2) Ensure, via operational funds and/or external funding, at least 5% of SEP (Science Engagement Programs) participants, who would otherwise not be able to register due to economic hardship, are able to register in SEP programs.

 On Track