Cyclical Program Review of Academic Programs in the Department of Physics, Engineering Physics and Astronomy
One Year Progress Report on Implementation Plan

Date: April 25, 2017

Recommendation	**Proposed Follow-up**	**Responsibility for Leading Follow-up**	**Timeline for Addressing Recommendation**	**Please indicate whether the implementation is on target and on time, and provide a brief description.**
1. The Department of Physics, Engineering Physics and Astronomy should review the availability of course offerings to ensure they are delivered with sufficient frequency to benefit both its undergraduate and graduate students. During this review the unit should examine its fields of study to determine that the unit can: a) deliver in areas of stated expertise; and, b) expand and highlight certain areas of strength and demand (e.g. medical physics).	A curriculum mapping of all courses to DLEs, LOs and other indicators of achievement in conjunction with the Centre for Teaching and Learning	Department head, associate deans (FEAS, FAS and SGS)	Vice-Provost and dean of Graduate Studies, dean of Engineering and Applied Science and the dean of Arts and Science's *annual report*s to the provost 2016	The Department is in the process of reviewing both its undergraduate and graduate offerings. The main constraint to date has been a shortage of Faculty to teach new and existing courses. These issues will be somewhat alleviated once the new hires as part of CPARC are in place (hopefully by September 2017). Going forward, one initiative is to add an advanced course in computational physics cross-listed as a graduate course. In addition, once the new particle astrophysics faculty are in place, we will be able to offer graduate theory courses in quantum field theory and weak interactions. We will also be able to offer core graduate courses such as Advance Quantum Mechanics and E&M on a regular baisis. As part of the CPR, the Department did present a DLE mapping in the self study (pgs 22-30 in the self-study). In addition,

				the Department has created graduate attributes for all of its Engineering Physics courses as part of the CEAB process. In the coming year, we will work with the Centre for Teaching and Learning to see how this mapping can be improved.
2. The department should look for additional revenue opportunities, including new programing and advancement prospects to enhance the financial sustainability of its course offerings and to improve the physical space and facilities associated with the unit.	Initiate meeting with vice-principal (advancement), department head and relevant associate deans	Department head, associate deans (FEAS, FAS and SGS)	Vice-Provost and dean of Graduate Studies, dean of Engineering and Applied Science and the dean of Arts and Science's *annual report*s to the provost 2016	The Department has raised the enrollment caps in the online courses, ASTR 101, ASTR 102 and PHYS P20. We also hope to turn the new course PHYS 260 (The Physics of Colour) into an online course. The Department is in the process of converting a number of classrooms into high-quality office space for graduate students and postdocs. We have also been working with campus planning to clearly lay out the space requirements for a new physics building. The potential locations for such a building are being investigated and we hope to have preliminary architectural plans for such a building by the summer of 2017. There have already been meetings with advancement and these will continue and intensify over the coming months.
3. The department should consider creating a 4 plus 1 accelerated option in the physics program (i.e. 4-	Initiate meeting with department head and	Department head, associate deans (FAS and SGS)	Vice-Provost and dean of Graduate Studies' and dean of Arts and	The Department has created a 4+1 accelerated option for the A&S students and we are working to streamline the process for engineering physics and

year undergraduate plus one year masters) for students in Arts and Science and formalizing these options as combined degrees to draw greater attention and awareness of the opportunity.	associate deans (FAS and SGS)		Science's *annual report* to the provost 2016	A&S students. To make this option viable, the department has set aside a minimum of $20,000 per year to subsidize the research stipend of the students during their summer after third year.

Additional Notes:

Please note any additional issues affecting progress, if necessary.