Application Form for Mechatronics Option in Mechanical Engineering

Mechatronics is an integrated approach to mechanical, electronic and computer engineering for the design of "smart" products and "intelligent" manufacturing systems. The option normally begins in second year but may be started later. Students <u>must have completed at least 35 credit hours</u> in the BScE (ME) program before acceptance into the Option. More information can be found on the ME website (www.unbf.ca/eng/ME).

Student name: _____ Student no.: _____ Credit hrs completed: _____

Student signature: _____ Date: _____ Start term (3 or 5): _____

Core Courses:
In order to plan to accommodate you in the core course laboratories, <u>indicate when</u> you plan to take the following courses required for the Mechatronics Option:

Course no.	Course name	Academic term	Calendar year
ECE 2214	Digital Logic Design	Fall	
ECE 2215	Digital Logic Design Lab	Fall	
ECE 2711	Electric Circuits	Fall	
ECE 3111	Electronics I	Fall	
ME 4673	Introduction to Mechatronics	Winter	
ME 4683	Mechatronics Applications	Fall	

The work for the senior design project course, ME 4860 (or ENGG 4000 or TME 4025) will provide appropriate experience to suit the option**.**

Technical Electives:
The normal choice of technical electives is replaced by one elective from the list below. <u>Indicate which of the following</u> you are now considering (you may change your choice later):

Course no.	Course name	Indicate interest
ECE 3221	Computer Organization (4 ch)	
ECE 4323	Industrial Control Systems (4 ch)	
ECE 4333	Robotics (4 ch)	
ECE 4343	Haptic Robotics (4 ch)	
ECE 4923	Introduction to Biomedical Engineering (4 ch)	
ME 4173	Robot Kinematics (4 ch)	
ME 4703	Mechanical Engineering Measurements (4 ch)	
ME 5183	Industrial Robotics and Automation (4 ch)	
ME 5643	Automatic Controls II (4 ch)	
ME 5653	Predictive Control and Intelligent Sensors (4 ch)	
ME 5953	Embedded Flight Control Systems (4 ch)	

Other technical elective courses may be selected with the permission of the Director of Undergraduate Studies or the Option Co-ordinator.

Department Approval:

Faculty name: _____ Faculty signature: _____ Date: _____