

## AC-04-10 New Course Proposal Form

(09/2003)

Will this new course affect a current program?     If "yes", has a Program Revision Form been submitted concurre	v Yes □ No ntly? v Yes □ No
2. Teaching Department:  Computer Science	4. Campus (Downtown, Macdonald, Off Campus, Distance Ed, Other – specify)  5. Effective Term of Implementation (Ex. Sept. 2004 = 200409)  Term: Jan. 2005
3. Administering Science	Downtown
Course Title (Limit 30 Characters) - required for all courses:      Intro Robots&Intelligent Sys      Course Title to Appear in the Calendar (optional)     (Limit 59 characters):     Note: This can ONLY be an expansion of word(s) abbreviated in the 30 character course title above.      Introduction to Robotics and Intelligent Systems	7. Course Number(s) Indicate course number & the number of terms spanned: (tick all that apply)  Subject/course number:  COMP 417  Course(s) Span:  1 term  2 consecutive terms (D1, D2)  2 non-consecutive terms (N1, N2)
9. Credit Weight (or CEU's for non-credit CE courses):  3	☐ 3 terms (J1, J2, J3)
10. Schedule Type(s):  (Enter all that apply – see form, STVSCHD in Banner for a comp (i.e. Lecture, Labs, Tutorial)  Hours per Week	olete list.)  Hours per Week  Hours per Week
	Total Hours per Week: 3
	Total Number of Weeks:
11. Projected Enrolment:	
35	

12. Prerequisite(s) (Courses or Tests) Specify course number(s) or name(s) of test(s):	13. Corequisite(s) Course Number(s):  Specify course number(s) and title(s):
COMP-424	
MATH-223	
If the student does not have a prerequisite should web registration be blocked?  ☐ Yes ☒ No	If the student does not register for the corequisite in the same term should web registration be blocked?  ☐ Yes ☐ No
If "Yes" complete A and B:	
A. Indicate minimum grade or test score(s) the student must attain in prerequisite course(s) or test(s):	
B. Can the prerequisite course(s) or test(s) be taken in the same term as this course? ☐ Yes ☐ No	
14. Consultation Reports Attached  ☑ Yes □	15. Additional Course Charges (must be approved by the Fee Policy Committee) Description of Fee (e.g. screening fee)  Amount
16. Requires Teaching, Physical, or Financial Resources  Not Currently Available (attach explanation)  ☐ Yes ☑ No	17. Other Information (specify):
18. Course Description (as it will appear in the Calendar [maximum 50 words]): (N.B. Faculty of Medicine must append complete course outline)	
This course considers issues relevant to the design of robotic and c Robotic hardware systems. Kinematics and inverse kinematics. Se planning. Configuration spaces. Position estimation. Intelligent sys	nsors, sensor data interpretation and sensor fusion. Path
19. Supplementary information to appear in the Calendar in addition to the Such as: registration restriction(s), prerequisite(s), corequisite(s), equencolment limitations, language of instruction etc.  Please enter the information as it should appear in the calendar notes.	•
20. Rationale	
Robotics and more generally the integration of hardware systems with computer so There is a widely held belief that robotics technologies will become increasingly av- controls. The area also has appealing connections to both theoretical computer so and is an area of exceptional research strength at McGill, and yet it is it is not curre that shortcoming.	ailable in the next several years, for example via semi-automated vehicle bience as well as computer systems engineering. The area has wide appeal
There are two robotics courses at the 500-level in mechanical engineering: MECH and one course in mechatronics MECH 557, <i>Mechatronic Design</i> , but none of thes with what is proposed here.	

INFORMATION FOR	R ADMISSIONS, RECKUIT	MENT & REGISTRAR'S O	FFICE		
To be completed by the Faculty To be completed by ARR		For Continuing Education Use			
Slot Course:	☐ Yes ☐ No	CIP Code			
		F		CE Admin. Unit :	
				CE Non-Grant Courses:	
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21. Approvals:					
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