WASHTENAW COMMUNITY COLLEGE

MASTER SYLLABUS

Course Discipline Code & No: ROB 172 **Title:** FIRST Robotics Competition **Effective Term** Winter 2008

Division Code: HAT **Department Code:** INTD **Org #:** 14400

Don't publish: ☐ College Catalog ☐ Time Schedule ☐ Web Page

Reason for Submission. Check all that apply.

- ☒ New course approval
- ☐ Three-year syllabus review/Assessment report
- ☐ Course change
- ☐ Reactivation of inactive course
- ☐ Inactivation (Submit this page only.)

Change information: Note all changes that are being made. Form applies only to changes noted.

- ☐ Consultation with all departments affected by this course is required.
- ☐ Course discipline code & number (was _____)*
  *Must submit inactivation form for previous course.
- ☐ Course title (was _____)
- ☐ Course description
- ☐ Course objectives (minor changes)
- ☐ Credit hours (credits were: _____)
- ☐ Total Contact Hours (total contact hours were: _____)
- ☐ Distribution of contact hours (contact hours were: lecture: _____ lab _____ clinical _____ other _____)
- ☐ Pre-requisite, co-requisite, or enrollment restrictions
- ☐ Change in Grading Method
- ☐ Outcomes/Assessment
- ☐ Objectives/Evaluation
- ☐ Other _____

Rationale for course or course change. Attach course assessment report for existing courses that are being changed.

The 3 credit content of what was ROB 170. Provide students with the design and build activities they will need to successfully perform in the January – March FIRST Robotics regional competition event.

Approvals Department and divisional signatures indicate that all departments affected by the course have been consulted.

Department Review by Chairperson ☐ New resources needed ☐ All relevant departments consulted

Print: Gary Schultz/Tom Penird Signature _____ Date: _____
Faculty/Preparer

Print: Gary Schultz/Tom Penird Signature _____ Date: _____
Department Chair

Division Review by Dean

☒ Request for conditional approval

Recommendation ☒ Yes ☐ No _____ 9/21/07
Dean's/Administrator's Signature Date

Curriculum Committee Review

Recommendation _____

☐ Tabled ☐ Yes ☐ No _____ _____
Curriculum Committee Chair's Signature Date

Vice President for Instruction Approval

_____ 9/21/07
Vice President's Signature Date

Approval ☐ Yes ☐ No ☒ Conditional

Do not write in shaded area.
Log File 9/21/07 ✓ Ecopy ☐ Banner 9/21 C&A Database 9/21 C&A Log File 9/21 Basic skills ☐ Contact fee ☑

Please return completed form to the Office of Curriculum & Assessment and email an electronic copy to sjohn@wccnet.edu for posting on the website.

***Complete ALL sections which apply to the course, even if changes are not being made.**

Course:	Course title:
ROB 172	FIRST Robotics Competition

Credit hours: 3

If variable credit, give range:

_____ to _____ credits

Contact hours per semester:

	Student	Instructor
Lecture:	_	_
Lab:	60	60
Clinical:	___	___
Practicum:	___	___
Other:	15	15
Totals:	75	75

Are lectures, labs, or clinicals offered as separate sections?

☐ Yes - lectures, labs, or clinicals are offered in separate sections

☒ No - lectures, labs, or clinicals are offered in the same section

Grading options:

☐ P/NP (limited to clinical & practica)

☐ S/U (for courses numbered below 100)

☒ Letter grades

Prerequisites. Select one:

☒ College-level Reading & Writing ☐ Reduced Reading/Writing Scores (Add information at Level I prerequisite) ☐ No Basic Skills Prerequisite (College-level Reading and Writing is not required.)

In addition to Basic Skills in Reading/Writing:

Level I (enforced in Banner)

	Course	Grade	Test	Min. Score	Concurrent Enrollment (Can be taken together)	Corequisites (Must be enrolled in this class a lso during the same semester)
	_____	___	_____	_____	☐	_____
☐ and ☐ or	_____	___	_____	_____	☐	_____
☐ and ☐ or	_____	___	_____	_____	☐	_____
☐ and ☐ or	_____	___	_____	_____	☐	_____

Level II (enforced by instructor on first day of class)

	Course	Grade	Test	Min. Score
	_____	___	_____	_____
☐ and ☐ or	_____	___	_____	_____
☐ and ☐ or	_____	___	_____	_____

Enrollment restrictions (In addition to prerequisites, if applicable.)

☐ and ☐ or Consent required ☐ and ☐ or Admission to program required ☐ and ☐ or Other (please specify):

Program: _____ _____

Please send syllabus for transfer evaluation to:

Conditionally approved courses are not sent for evaluation.

Insert course number and title you wish the course to transfer as.

☐ E.M.U. as _____

☐ U of M as _____

☐ _____ as _____

☐ _____ as _____

☐ _____ as _____

☐ _____ as _____

Course	Course title
ROB 17 2	FIRST Robo tics Competition

Course description State the purpose and content of the course. Please limit to 500 characters.	In this course students prepare to participate in the FIRST (For Inspiration and Recognition in Science and Technology) Robotics program and competition. Students are presented with the vision and the ethos of *FIRST (* Gracious Professionalism) including activities necessary for successful Robotics competition	
Course outcomes List skills and knowledge students will have after taking the course. **Assessment method** Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.	**Outcomes** (applicable in all sections) Apply team values. Apply the vision and ethos of FIRST Apply Time Management skills Apply Problem solving techniques	**Assessment** Methods for determining course effectiveness
Course Objectives Indicate the objectives that support the course outcomes given above. **Course Evaluations** Indicate how instructors will determine the degree to which each objective is met for each student.	**Objectives** (applicable in all sections)	**Evaluation** Methods for determining level of student performance of objectives

List all new resources needed for course, including library materials.

Student Materials:

List examples of types		Estimated costs
Texts Supplemental reading Supplies Uniforms Equipment Tools Software	FIRST Robotics Judges Handbook	$

Equipment/Facilities: Check all that apply. (All classrooms have overhead projectors and permanent screens.)

Check level only if the specified equipment is needed for all sections of a course.

☐ Level I classroom
Permanent screen & overhead projector

☐ Level II classroom
Level I equipment plus TV/VCR

☒ Level III classroom
Level II equipment plus data projector, computer, faculty workstation

☒ Off-Campus Sites: EMU Regional Competition
☐ Testing Center
☐ Computer workstations/lab
☐ ITV
☐ TV/VCR
☐ Data projector/computer
☒ Other Advanced Manufacturing Lab

Assessment plan:

Learning outcomes to be assessed (list from Page 3)	Assessment tool	When assessment will take place (semester & year)	Course section(s)/other population	Number students to be assessed

Scoring and analysis of assessment:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric/scoring guide.

2. Indicate the standard of success to be used for this assessment.

3. Indicate who will score and analyze the data (data must be blind-scored).

4. Explain the process for using assessment data to improve the course.