

Program Information Report

Science, Computer Technology, Engineering & Math

Exercise Science (ASESCI)**Associate in Science Degree****Program Effective Term: Winter 2025**

The Exercise Science program is designed to prepare students for employment at the entry level in health and fitness-related occupations and/or for higher education by training in the sciences that relate to physical activity, health, fitness, nutrition, wellness, and weight control. Completion of the two-year degree will prepare students for the ACSM certification exams for personal trainer and/or health/fitness instructor. The AS degree in Exercise Science from WCC is designed to prepare students for transfer to a four-year institution that offers degrees in sports medicine-exercise science, kinesiology, movement science, and physical education. Individuals that transfer to four-year institutions in these fields (and in some cases go beyond the four-year degree) can be expected to find employment in a wide variety of occupations, including (but not limited to) physician, physician's assistant, physical therapist, physical therapist assistant, research scientist, fitness manager, worksite wellness coordinator, exercise specialist, clinical exercise physiologist, coach, physical education teacher, and other exercise-related positions.

Articulation:

Eastern Michigan University

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site:

<https://www.wccnet.edu/learn/transfer-wcc-credits/articulation-agreements.php> .**First Semester (15 credits)**

ENG 111	Composition I	4
MTH 160 or	Basic Statistics	
MTH 160X	Basic Statistics	4
PSY 100	Introduction to Psychology	3
BIO 162	General Biology II Cells and Molecules	4

Second Semester (17 credits)

BIO 110	Introduction to Exercise Science	3
BIO 161	General Biology I Ecology and Evolution	4
CEM 111	General Chemistry I	4
ENG 226	Composition II	3
MTH 178	General Trigonometry*	3

Third Semester (16 credits)

BIO 111	Anatomy and Physiology - Normal Structure and Function	5
BIO 201	Physiology of Exercise	4
PHY 111	General Physics I	4
Elective	Arts/Human. Elective(s) 1 (Not COM)	3

Fourth Semester (14 credits)

BIO 215	Cell and Molecular Biology	4
BIO 225	Tests and Measurements in Exercise Science	3
HSC 131	CPR/AED and First Aid	1
Elective	Soc. Sci. Elective(s) 2 (Not PSY)	3
COM 101	Fundamentals of Speaking	3

Minimum Credits Required for the Program: 62**Notes:**

*Students must have an Academic Math Level of 5 to enroll in MTH 178.

Program Information Report

Transfer

Exercise Science (ASESCI)**Associate in Science Degree****Program Effective Term: Winter 2025**

The Exercise Science program is designed to prepare students for employment at the entry level in health and fitness-related occupations and/or for higher education by training in the sciences that relate to physical activity, health, fitness, nutrition, wellness, and weight control. Completion of the two-year degree will prepare students for the ACSM certification exams for personal trainer and/or health/fitness instructor. The AS degree in Exercise Science from WCC is designed to prepare students for transfer to a four-year institution that offers degrees in sports medicine-exercise science, kinesiology, movement science, and physical education. Individuals that transfer to four-year institutions in these fields (and in some cases go beyond the four-year degree) can be expected to find employment in a wide variety of occupations, including (but not limited to) physician, physician's assistant, physical therapist, physical therapist assistant, research scientist, fitness manager, worksite wellness coordinator, exercise specialist, clinical exercise physiologist, coach, physical education teacher, and other exercise-related positions.

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MTH 160 or	Basic Statistics	
MTH 160X	Basic Statistics	4
PSY 100	Introduction to Psychology	3
BIO 162	General Biology II Cells and Molecules	4

Second Semester (17 credits)

BIO 110	Introduction to Exercise Science	3
BIO 161	General Biology I Ecology and Evolution	4
CEM 111	General Chemistry I	4
ENG 226	Composition II	3
MTH 178	General Trigonometry*	3

Third Semester (16 credits)

BIO 111	Anatomy and Physiology - Normal Structure and Function	5
BIO 201	Physiology of Exercise	4
PHY 111	General Physics I	4
Elective	Arts/Human. Elective(s) 1 (Not COM)	3

Fourth Semester (14 credits)

BIO 215	Cell and Molecular Biology	4
BIO 225	Tests and Measurements in Exercise Science	3
HSC 131	CPR/AED and First Aid	1
Elective	Soc. Sci. Elective(s) 2 (Not PSY)	3
COM 101	Fundamentals of Speaking	3

Minimum Credits Required for the Program: 62**Notes:**

*Students must have an Academic Math Level of 5 to enroll in MTH 178.

WASHTENAW COMMUNITY COLLEGE

PROGRAM CHANGE FORM

Program Code: ASESCI	Current Program Name: Exercise Science	Effective Term: Winter 2025
Division Code: MSE	Department: Life Sciences	

Directions:

1. Attach the current program listing from the WCC catalog or website and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using CurricUNET, but should be submitted at the same time as the program change form.
4. If changes affect the program assessment plan or if program outcomes are updated, please submit a Program Assessment Plan Change form. These changes must be approved separately from the program change form and should be submitted at the same time. Current program assessment plans can be found on the Curriculum and Assessment Program Information page.

Requested Changes:

- | | |
|---|---|
| <input type="checkbox"/> Remove course(s): _____ | <input type="checkbox"/> Program outcomes (may also result from removing or adding a course)* |
| <input checked="" type="checkbox"/> Add course(s): <u>Add MTH 160X or MTH 160 (requirement)</u> | <input type="checkbox"/> Program assessment plan* |
| <input type="checkbox"/> Program title (new title is _____) | <input type="checkbox"/> Accreditation information |
| <input type="checkbox"/> Description | Other: _____ |
| <input type="checkbox"/> Advisors | |
| <input type="checkbox"/> Program admission requirements | |
| <input type="checkbox"/> Continuing eligibility requirements | |

Note: A change to the Award Type requires the submission of a new program proposal form and a separate program inactivation form. Contact the Director of Curriculum & Assessment for more information.

Show all changes on the catalog page you attach.

* Please submit a Program Assessment Plan Change form.

Rationale for proposed changes: We need to change the course requirement of "MTH 160" to "MTH 160X or MTH 160" because of Dev. Ed. changes.

Financial/staffing/equipment/space implications:None

List departments that have been consulted regarding their use of this program.None

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	Susan Dentel		9-25-24
Department Chair	Susan Dentel		9-25-24
Division Dean/Administrator	Tracy Schwab		9/26/24
Please return completed form to the Office of Curriculum & Assessment, SC 257 or by e-mail to curriculum.assessment@wccnet.edu Once reviewed by the appropriate faculty committees we will secure the signature of the VPI.			
Reviewer	Print Name	Signature	Date

PROGRAM CHANGE FORM

Curriculum Committee Chair	Randy Van Wagnen	Randy Van Wagnen	Digitally signed by Randy Van Wagnen Date: 2024.10.18 08:56:41 -04'00'
Assessment Committee Chair	Jessica Hale	Jessica Hale	Digitally signed by Jessica Hale Date: 2024.10.18 13:39:37 -04'00'
Executive Vice President for Instruction	Dr. Brandon Tucker	Brandon Roderick Tucker	Digitally signed by Brandon Roderick Tucker Date: 2024.10.19 13:08:35 -04'00'

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Reviewed by C&A Committees 10/3/24

Program Information Report

Transfer and University Parallel Programs

If your goal is to continue your education toward a baccalaureate degree, then transfer and university parallel programs is the track for you. Complete the first two years of study in a supportive environment with small classes and personal attention.

Before beginning any transfer program, a student should consult with an academic advisor or counselor to obtain a program articulation agreement or a transfer guide. Early in the program, the student should contact an undergraduate advisor at the transfer college for specific admission and curriculum requirements and, if available, an unofficial transfer-credit evaluation.

Copies of articulation agreements and transfer guides are available in the Counseling Office on the second floor of the Student Center Building. Computers with access to the Internet Web sites of four-year colleges and universities are also available there.

Exercise Science

This program prepares the student for further study in the area of exercise science.

Exercise Science (ASESCI)

Associate in Science Degree

Program Effective Term: Fall 2018

The Exercise Science program is designed to prepare students for employment at the entry level in health and fitness-related occupations and/or for higher education by training in the sciences that relate to physical activity, health, fitness, nutrition, wellness, and weight control. Completion of the two-year degree will prepare students for the ACSM certification exams for personal trainer and/or health/fitness instructor. The AS degree in Exercise Science from WCC is designed to prepare students for transfer to a four-year institution that offers degrees in sports medicine-exercise science, kinesiology, movement science, and physical education. Individuals that transfer to four-year institutions in these fields (and in some cases go beyond the four-year degree) can be expected to find employment in a wide variety of occupations, including (but not limited to) physician, physician's assistant, physical therapist, physical therapist assistant, research scientist, fitness manager, worksite wellness coordinator, exercise specialist, clinical exercise physiologist, coach, physical education teacher, and other exercise-related positions.

Articulation:

Eastern Michigan University, several BS degrees.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: <http://www.wccnet.edu/curriculum/articulation/levelone/colleges/>.

First Semester		(15 credits)
BIO 162	General Biology II Cells and Molecules	4
ENG 111	Composition I	4
MTH 160	Basic Statistics	4
PSY 100	Introduction to Psychology	3
Second Semester		(17 credits)
BIO 110	Introduction to Exercise Science	3
BIO 161	General Biology I Ecology and Evolution	4
CEM 111	General Chemistry I	4
ENG 226	Composition II	3
MTH 178	General Trigonometry*	3
Third Semester		(16 credits)
BIO 111	Anatomy and Physiology - Normal Structure and Function	5
BIO 201	Physiology of Exercise	4
PHY 111	General Physics I	4
Elective	Arts/Human. Elective(s) 1 (Not COM)	3
Fourth Semester		(14 credits)
BIO 215	Cell and Molecular Biology	4
BIO 225	Tests and Measurements in Exercise Science	3
HSC 131	CPR/AED for the Professional Rescuer and First Aid	1
	Soc. Sci. Elective(s) 2 (Not PSY)	3
COM 101	Fundamentals of Speaking	3

160 or 160X

Minimum Credits Required for the Program:

62

WCC General Education Requirements
Effective Fall 2018

Associate degree programs were updated to meet the revised WCC general education requirements below.

Course Distribution Requirements

Associate degree students must complete courses from each of six General Education content areas. The requirements vary, depending on which degree is being earned. The number of general education credit hours required for each degree is as follows.

	AA	AS	AAS
Writing/Composition	3-4 credits	3-4 credits	3-4 credits
2nd Writing/Composition or Communication	3-4 credits	3 credits	3 credits
Mathematics	3-4 credits	3-4 credits	3-4 credits
Natural Sciences ¹	7-8 credits	7-8 credits	3-4 credits
Social & Behavioral Science ²	6 credits	6 credits	3 credits
Arts and Humanities ³	6 credits	6 credits	3 credits
General Education Electives to reach 30 credits	0-2 credits	0-2 credits	N/A
Minimum	30 credits	30 credits	18 credits

¹ Two courses in Natural Science including one with laboratory experience (from two disciplines)

² From two disciplines

³ From two disciplines

WCC General Education Requirements
Effective Fall 2018

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Mathematics	3-4 credits	3-4 credits	3-4 credits
Natural Sciences ¹	7-8 credits	7-8 credits	3-4 credits
Social & Behavioral Science ²	6 credits	6 credits	3 credits
Arts and Humanities ³	6 credits	6 credits	3 credits
General Education Electives to reach 30 credits	0-2 credits	0-2 credits	N/A
Minimum	30 credits	30 credits	18 credits

¹ Two courses in Natural Science including one with laboratory experience (from two disciplines)

² From two disciplines

³ From two disciplines

Program Information Report

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If your goal is to continue your education toward a baccalaureate degree, then transfer and university parallel programs is the track for you. Complete the first two years of study in a supportive environment with small classes and personal attention.

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First Semester		(15 credits)
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MTH 160	Basic Statistics	4
PSY 100	Introduction to Psychology	3
Second Semester		(17 credits)
BIO 110	Introduction to Exercise Science	3
BIO 161	General Biology I Ecology and Evolution	4
CEM 111	General Chemistry I	4
ENG 226	Composition II	3
MTH 178	General Trigonometry*	3
Third Semester		(16 credits)
BIO 111	Anatomy and Physiology - Normal Structure and Function	5
BIO 201	Physiology of Exercise	4
PHY 111	General Physics I	4
Elective	Arts/Human. Elective(s) 1 (Not COM)	3
Fourth Semester		(14 credits)
BIO 215	Cell and Molecular Biology	4
BIO 225	Tests and Measurements in Exercise Science	3
HSC 131	CPR/AED for the Professional Rescuer and First Aid	1
	Soc. Sci. Elective(s) 2 (Not PSY)	3
COM 101	Fundamentals of Speaking	3

Minimum Credits Required for the Program:

62

Program Information Report

Notes:

**Students must have an Academic Math Level of 5 to enroll in MTH 178.*

Done 2/1/10
NW

**WASHTENAW COMMUNITY COLLEGE
GENERAL EDUCATION REVISION PROGRAM CHANGE FORM
FOR AA AND AS PROGRAMS 2018-2019**

Program Code: ASESCI	Program Name: Exercise Science
Division Code: MSE	Department: Life Sciences

This form is to be used only for General Education Revision Program Changes for Associate in Arts (AA) and Associate in Science (AS) programs. Any other program changes should be submitted separately using a standard Program Change Form.

Directions:

- Review each general education area under **Requested Changes** below and respond as needed.
- Attach the semester program layout showing the current program listing from the WCC catalog.
 - Indicate any changes to be made on the semester layout.
 - Draw a line through any courses that should be removed on the semester layout.
 - Write in any courses that need to be added on the semester layout.
- Submit this form and semester program layout to the Office of Curriculum and Assessment (SC 257).

Current General Education Requirements AA and AS	Revised General Education Requirements 2018-2019 AA and AS
Writing 6 - 7 credits	English Composition 3 - 4 credits
Speech 3 credits	2 nd Course in English Composition or one course in Communication 3 - 4 credits
Mathematics 3 - 4 credits	Mathematics 3 - 4 credits
Natural Sciences 3 - 4 credits	Natural Sciences from 2 disciplines including one lab course 7 - 9 credits
Social & Behavioral Sciences 6 credits	Social & Behavioral Sciences from 2 disciplines 6 credits
Arts & Humanities 6 credits	Arts & Humanities from 2 disciplines 6 credits
Critical Thinking 0 credits	Elective Credits to reach a minimum of 30 credit hours 0 - 3 credits
Computer & Information Literacy 3 credits	
Total 30-33 credits	Total 30 credits

Please review each General Education Area in the chart below, and record the needed changes in the chart and on the attached semester layout.

REQUESTED CHANGES	
General Education Area	
English Composition	The requirement for one writing/English composition course remains the same. No changes will be made unless specifically requested below. (Use Writing Elective or ENG 111) Optional Change:
2 nd Course in English Composition or one course in Communication	WCC previously required both a second composition/writing course and a speech course. Your options are: <ol style="list-style-type: none"> Allow students to select any course that meets composition/writing or speech (<i>recommended</i>). 2. Require students to take a specific composition course (identify course below and on semester layout). Require students to take a specific communication course (identify course below and on semester layout). Requested Change: ENG 226

<p>2nd Course in English Composition or one course in Communication Credit Hours Because of this change, an extra 3 – 4 credit hours may be available in the program. Please specify how you would like to use those credit hours. Your options are:</p> <ol style="list-style-type: none"> 1. Reduce the number of credit hours if the program total is over 60 (<i>recommended</i>). 2. Replace the course with elective credits as needed to reach a minimum of 60 credit hours. 3. Add a specific program-related course (<i>please add the course in the semester it should be taken on the semester layout</i>). <p>Requested Change: <i>Adding COM as an Arts ~ Humanities</i></p>	
<p>Mathematics – The requirement for one mathematics course remains the same. However, the courses that meet the MTA requirement have changed slightly. MTH 148, 149 and 167 do not meet the general education requirement for AA or AS degrees. Please identify an alternate course or list "Math elective".</p> <p>Optional Change:</p>	
<p>Natural Sciences from 2 disciplines including one lab course WCC previously required one natural science course. Your options are:</p> <ol style="list-style-type: none"> 1. No change needed – a second natural science course is already included in my program. 2. Add a second natural science course in the semester shown on the semester layout attached. Unless specific courses are required, include one course identified as a lab science course. <p>Requested Change:</p>	
<p>Social & Behavioral Sciences from 2 disciplines – The requirement for two social and behavioral science courses remains the same. No changes will be made unless specifically requested below.</p> <p>Optional Change:</p>	
<p>Arts & Humanities from 2 disciplines – The requirement for two arts and humanities courses remains the same. No changes will be made unless specifically requested below. (Note: A COM course can be specified here if speech is not required in the area above. It can only count in one area.)</p> <p>Optional Change: <i>Require COM 101 for an ARTS ~ HUM</i></p>	
<p>Computer and Information Literacy The requirement for computer and information literacy has been removed. Your options are:</p> <ol style="list-style-type: none"> 1. Continue to require a specific computer course. If a specific course is required in your program, we will leave it there. If you previously used "Computer and Information Literacy Course," you will need to specify either a specific course or a list of courses from which to choose. 2. Remove the computer and information literacy course and replace the course with elective credits as needed to reach a minimum of 60 credit hours. <p>Required Change: <i>2</i></p>	
<p>Elective Credits to reach a minimum of 30 credit hours – A course titled "General Education Credit(s) to Reach a Minimum of 30 Credit Hours" will be created and then added as needed to the program.</p>	

Reviewer	Print Name	Signature	Date
Initiator	<i>Marvin Boluyt</i>	<i>Marvin Boluyt</i>	<i>11-20-17</i>
Department Chair	<i>Anne Heise</i>	<i>Anne Heise</i>	<i>11-20-17</i>
Division Dean/ Administrator	<i>Kristin Good</i>	<i>Kristin Good</i>	<i>11.27.17</i>
Vice President for Instruction		<i>[Signature]</i>	<i>1/9/18</i>

Office use only

Entered in: Banner C&A Database Log File

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: ASESCI Program Name: Exercise Science
 Division Code: MSH Department: Life Sciences

Effective Term: Fall 2013

Directions:

1. Attach the current program listing from the WCC catalog or Web site and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using a Master Syllabus form, but should be submitted at the same time as the program change form.

Requested Changes:

- | | |
|---|---|
| <input type="checkbox"/> Review | <input type="checkbox"/> Program admission requirements |
| X <input checked="" type="checkbox"/> Remove course(s): BIO 101, BIO103 | <input type="checkbox"/> Continuing eligibility requirements |
| X <input checked="" type="checkbox"/> Add course(s): _BIO 161, BIO 162 | <input type="checkbox"/> Program outcomes |
| <input type="checkbox"/> Program title (title was _____) | <input type="checkbox"/> Accreditation information |
| <input type="checkbox"/> Description | <input type="checkbox"/> Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses) |
| <input type="checkbox"/> Type of award | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Advisors | |
| <input type="checkbox"/> Articulation information | |

Show all changes on the attached page from the catalog.

Rationale for proposed changes or discontinuation:

Replace existing introductory Biology sequence with new majors-level courses.

Financial/staffing/equipment/space implications:

List departments that have been consulted regarding their use of this program.

Biology

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	Anne Heise	<i>Anne Heise</i>	2/18/13
Department Chair	Anne Heise	<i>Anne Heise</i>	2/18/13
Division Dean/Administrator	Martha Showalter		
Vice President for Instruction	<i>William Abernethy</i>	<i>W Abernethy</i>	<i>3/29/13</i>
President	<i>N/A</i>		

Do not write in shaded area. Entered in: Banner _____ C&A Database *3/29/13* Log File *3/29/13* Board Approval _____

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

Done logged 2/19/13 sf

Program Information Report

Exercise Science (ASESCI)

Associate in Science Degree

Program Effective Term: Fall 2013

The Exercise Science program is designed to prepare students for employment at the entry level in health and fitness-related occupations and/or for higher education by training in the sciences that relate to physical activity, health, fitness, nutrition, wellness, and weight control. Completion of the two-year degree will prepare students for the ACSM certification exams for personal trainer and/or health/fitness instructor. The AS degree in Exercise Science from WCC is designed to prepare students for transfer to a four-year institution that offers degrees in sports medicine-exercise science, kinesiology, movement science, and physical education. Individuals that transfer to four-year institutions in these fields (and in some cases go beyond the four-year degree) can be expected to find employment in a wide variety of occupations, including (but not limited to) physician, physician's assistant, physical therapist, physical therapist assistant, research scientist, fitness manager, worksite wellness coordinator, exercise specialist, clinical exercise physiologist, coach, physical education teacher, and other exercise-related positions.

Articulation:

Eastern Michigan University, several BS degrees.

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First Semester		(18 credits)
BIO 162	General Biology II Cells and Molecules	4
ENG 111	Composition I	4
MTH 160	Basic Statistics	4
MTH 178	General Trigonometry**	3
PSY 100	Introduction to Psychology	3

Second Semester		(18 credits)
BIO 110	Introduction to Exercise Science	3
BIO 161	General Biology I Ecology and Evolution	4
CEM 111	General Chemistry I	4
ENG 226	Composition II	3
PHY 111	General Physics I	4

Third Semester		(18 credits)
BIO 111	Anatomy and Physiology - Normal Structure and Function	5
BIO 201	Physiology of Exercise	4
	Arts/Human. 1 Elective(s)	3
	Computer Lit. Elective(s)	3
	Soc. Sci. Elective(s)*	3

Fourth Semester		(17 credits)
BIO 215	Cell and Molecular Biology	4
BIO 225	Tests and Measurements in Exercise Science	3
HSC 131	CPR/AED for the Professional Rescuer and First Aid	1
	Arts/Human. 2 Elective(s)	3
	Soc. Sci. Elective(s)*	3
	Speech Elective(s)	3

Minimum Credits Required for the Program: 71

Notes:

*Transfer students should select two MACRAO-approved Social Science courses.

**Students must have an Academic Math Level of 4 to enroll in MTH 178.

Exercise Science (ASESCI)

Associate in Science Degree

2010 - 2011 2011 - 2012 2012 - 2013

Description

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Articulation

Eastern Michigan University, several BS degrees.

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www.wccnet.edu/departments/curriculum/articulation.php?levelone=colleges.

Contact Information

Division: Math, Science & Health
Department: Life Sciences Dept
Advisors: [Marvin Boluyt](#)

Requirements

First Semester

Class	Title	Credits
BIO 101	Concepts of Biology <i>BIO 162</i>	4
ENG 111	Composition I	4
MTH 160	Basic Statistics	4
MTH 178	General Trigonometry **	3
PSY 100	Introduction to Psychology	3
Total		18

Second Semester

Class	Title	Credits
BIO 103	General Biology II <i>BIO 161</i>	4
BIO 110	Introduction to Exercise Science	3
CEM 111	General Chemistry I	4
ENG 226	Composition II	3
PHY 111	General Physics I	4
Total		18

Third Semester

Class	Title	Credits
BIO 111	Anatomy and Physiology - Normal Structure and Function	5
BIO 201	Physiology of Exercise	4
Elective(s)	Arts and Humanities 1	3
Elective(s)	Computer and Information Literacy	3
Elective(s)	Social and Behavioral Science *	3
Total		18

Fourth Semester

Class	Title	Credits
BIO 215	Cell and Molecular Biology	4
BIO 225	Tests and Measurements in Exercise Science	3
HSC 131	CPR/AED for the Professional Rescuer and First Aid	1
Elective(s)	<u>Arts and Humanities 2</u>	3
Elective(s)	<u>Social and Behavioral Science *</u>	3
Elective(s)	Speech	3
Total		17
	Total Credits Required:	71

Footnotes

*Transfer students should select two MACRAO-approved Social Science courses.

**Students must have an Academic Math Level of 4 to enroll in MTH 178.

PROGRAM PROPOSAL FORM

- Preliminary Approval** – Check here when using this form for preliminary approval of a program proposal, and respond to the items in general terms.
- Final Approval** – Check here when completing this form after the Vice President for Instruction has given preliminary approval to a program proposal. For final approval, complete information must be provided for each item.

<p>Program Name:</p> <p>Division and Department:</p> <p>Type of Award:</p> <p>Effective Term/Year:</p> <p>Initiator:</p>	<p><u>Exercise Science</u></p> <p><u>Division of Mathematics, Natural, and Behavioral Sciences</u> <u>Department of Life Sciences</u></p> <p><input type="checkbox"/> AA <input checked="" type="checkbox"/> AS <input type="checkbox"/> AAS <input type="checkbox"/> Cert. <input type="checkbox"/> Adv. Cert. <input type="checkbox"/> Post-Assoc. Cert. <input type="checkbox"/> Cert. of Comp.</p> <p><u>September, 2008</u></p> <p><u>Marvin Boluyt</u></p>	<p>Program Code: ASESCI</p> <p>CIP Code: 31.0505</p>
<p>Program Features</p> <p>Program's purpose and its goals.</p> <p>Criteria for entry into the program, along with projected enrollment figures.</p> <p>Connection to other WCC programs, as well as accrediting agencies or professional organizations.</p> <p>Special features of the program.</p>	<p>Purpose: The Exercise Science program is designed to prepare students for employment at the entry level in health and fitness-related occupations and/or for higher education by training in the sciences that relate to physical activity, health, fitness, nutrition, wellness, and weight control. Completion of the two-year degree will prepare students for the ACSM certification exams for personal trainer and/or health/fitness instructor. The AS degree in Exercise Science from WCC is designed to prepare students for transfer to a 4-year institution that offers degrees in Sports Medicine-Exercise Science, Kinesiology, Movement Science, and Physical Education. Individuals that transfer to 4-year institutions in these fields (and in some cases go beyond the 4-year degree) can be expected to find employment in a wide variety of occupations, including (but not limited to) physician, physician's assistant, physical therapist, physical therapist assistant, research scientist, fitness manager, worksite wellness coordinator, exercise specialist, clinical exercise physiologist, coach, physical education teacher, and other exercise-related positions.</p> <p>Goals: All graduating students will be prepared for the certification exams for "Personal Trainer" or "Health/Fitness Instructor" by the American College of Sports Medicine (ACSM), thereby qualifying them for entry level positions in the health/fitness industry. Some students will matriculate to 4-year colleges and universities and successfully graduate from those institutions. Some students will continue in graduate and profession post-graduate education.</p> <p>Entry criteria: None beyond WCC admission criteria</p> <p>Connections: Students will be required to obtain certification by the Red Cross (First AID/AED). Students are encouraged to become certified as either "Personal Trainer", or "Health/Fitness Instructor" by the ACSM</p> <p>Special features: Relies heavily on existing courses at WCC. Proposes 3 new courses. Provides a unique COD course in Exercise Science. Provides laboratory experiences in Motor Control, Biomechanics, and Exercise Physiology. Provides career awareness material. Provides a capstone course that integrates testing procedures, interpretation of tests and of scientific literature, and requires students to report their results and conclusions in a scientific journal-style manner.</p>	
<p>Need</p> <p>Need for the program with evidence to support the stated need.</p>	<p>1. Given the rapid and unprecedented rise in prevalence of obesity in the United States and in Michigan in the last 3 decades coupled with the reduction in physically demanding jobs in modern economies, there is a need for individuals trained in the sciences that relate to physical activity, health, fitness, nutrition, wellness, and weight control. The evidence for this need is well-documented in the literature, and is summarized quite well in the Surgeon General's report entitled "Physical Activity and Health" released in 1996.</p>	

	<ol style="list-style-type: none"> 2. EMU seeks qualified transfer students and has helped craft an articulation agreement for students to complete a combined degree program culminating in an Associate in Science degree in Exercise Science from WCC, and a Bachelor of Science degree in Sports Medicine-Exercise Science from EMU. 3. UM seeks qualified transfer students and has helped craft a draft articulation agreement for students to complete a combined degree program culminating in an Associate in Science degree in Exercise Science from WCC, and a Bachelor of Science degree in Kinesiology-Movement Science from UM. 4. UM seeks qualified transfer students in Physical Education (working with Pat VanVolkinburg and Julie Simon at UM to enhance transfer procedures). 	
<p>Program Outcomes/Assessment</p> <p>State the knowledge to be gained, skills to be learned, and attitudes to be developed by students in the program.</p> <p>Include assessment methods that will be used to determine the effectiveness of the program.</p>	<p><u>Outcomes</u></p> <ol style="list-style-type: none"> 1. Demonstrate proficiency in interpreting & evaluating performance and biometric data 2. Demonstrate competence in the knowledge, skills, and abilities required of the Certified Personal Trainer or Health/Fitness Instructor 3. Demonstrate success in Exercise Science coursework at 4-year institutions 	<p><u>Assessment</u></p> <ol style="list-style-type: none"> 1. Performance on Final Project in BIO 225 Tests and Measurements in Exercise Science 2. ACSM Certification Examinations (one of these) <ul style="list-style-type: none"> A. Personal Trainer B. Health/Fitness Instructor 3. Performance data of transfer students at 4-year schools

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

<p>Curriculum</p> <p>List the courses in the program as they should appear in the catalog. List minimum credits required. Include any notes that should appear below the course list.</p>	<p>MACRAO Requirements (33 credits)</p> <ol style="list-style-type: none"> 1. English Writing Requirement (7 credits) <ul style="list-style-type: none"> ENG 111 Composition I4 ENG 226 Composition II3 2. Math/Science Requirement (8 credits) <ul style="list-style-type: none"> ¹ MTH 160 Basic Statistics4 BIO 101 Concepts of Biology4 3. Humanities Requirement (9 credits) <ul style="list-style-type: none"> Complete one speech course:.....3 <ul style="list-style-type: none"> COM 101, 102, 142, 183, 200, or 225 Complete two courses: See note below 6 <ul style="list-style-type: none"> Choose from courses approved by WCC to satisfy The MACRAO humanities requirement. 4. Social Science Requirement (9 credits) <ul style="list-style-type: none"> PSY 100 Introductory Psychology.....3 Complete two courses: See note below 6 <ul style="list-style-type: none"> Choose from courses approved by WCC to satisfy The MACRAO social science requirement (See the WCC catalog)
	<p>Exercise Science Specific Requirements (34 credits)</p> <ul style="list-style-type: none"> BIO 103 General Biology II4 ² BIO 110 Physiology of Exercise (new)3 * BIO 111 Anatomy & Phys-Normal Structure & Func.....5 ² BIO 201 Biology of Exercise (new)4 BIO 215 Cell and Molecular Biology4 CEM 111 General Chemistry I4 MTH 178 General Trigonometry3 PHY 111 General Physics I4 HSC 131 CPR/AED/First Aid1 ^{2,3} BIO 225 Tests & Measurements in Exercise Sci (new)3 <p>Total for AS degree in Exercise Science (68 credits)</p> <p>¹ Prerequisite for BIO 225 ² New course ³ Capstone course</p>

Budget Specify program costs in the following areas, per academic year: See attached budget planning detail		START-UP COSTS	ONGOING COSTS
	Faculty	\$ see attached	\$ see attached
	Training/Travel	\$1,000.00	\$1,000.00
	Materials/Resources	.	.
	Facilities/Equipment	\$35,000.00	\$1,000.00
	Other	.	.
	TOTALS:	\$ 36,000	\$ 2,000.
Program Description for Catalog and Web site	The Exercise Science program is designed to prepare students for employment at the entry level in health and fitness-related occupations and/or for higher education by training in the sciences that relate to physical activity, health, fitness, nutrition, wellness, and weight control. Completion of the two-year degree will prepare students for the ACSM certification exams for personal trainer and/or health/fitness instructor. The AS degree in Exercise Science from WCC is designed to prepare students for transfer to a 4-year institution that offers degrees in Sports Medicine-Exercise Science, Kinesiology, Movement Science, and Physical Education. Individuals that transfer to 4-year institutions in these fields (and in some cases go beyond the 4-year degree) can be expected to find employment in a wide variety of occupations, including (but not limited to) physician, physician's assistant, physical therapist, physical therapist assistant, research scientist, fitness manager, worksite wellness coordinator, exercise specialist, clinical exercise physiologist, coach, physical education teacher, and other exercise-related positions.		
Program Information	Accreditation/Licensure - None Advisors – Marvin Boluyt Advisory Committee – to be created (Suggested personnel include Shel Levine from EMU, Victor Katch and Pat VanVolkinburg from UM, John Harris from Healthways, and individuals from local fitness facilities) Admission requirements – None beyond those required for admission to the college Articulation agreements – 1. Negotiated with EMU, 2) In the process of negotiating with UM-Movement Science, and UM-Physical Education Continuing eligibility requirements – Computer Literacy and Information Technology Test		

Assessment plan:

Learning outcomes to be assessed	Assessment tool	When assessment will take place	Describe population to be assessed	Number of students to be assessed
A. Demonstrate proficiency in interpreting & evaluating performance data and biometric data	Performance on Final Project in BIO 225 Tests and Measurements in Exercise Science	Winter 2010 Annually thereafter	All students in all sections of BIO 225	All students who complete BIO 225
B. Demonstrate competence in the knowledge, skills, and abilities required of the Certified Personal Trainer or Health/Fitness Instructor Exam	ACSM Certification Examinations (one of these) A. Personal Trainer B. Health/Fitness Instructor	Winter 2010 Annually thereafter	All students who take the certification exam(s) and agree to share the outcome(s)	All students who to take the certification exam(s) and agree to share the outcome(s)

C. Demonstrate success in Exercise Science coursework at 4-year institutions	Performance data of transfer students at 4-year schools	Winter 2011 Annually thereafter	Transfer students to Sports Medicine-Exercise Science at EMU and Kinesiology at UM	All transfer students to Sports Medicine-Exercise Science program at EMU and to Kinesiology at UM
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Scoring and analysis of assessment:

- Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric/scoring guide.
 - Performance on Final Project in BIO 225 course (rubric attached).
 - External evaluation (ACSM Certification Exam results reported by students to Faculty).
 - Performance data of transfer students to EMU and UM.
- Indicate the standard of success to be used for this assessment.
 - 70% students who complete BIO 225 will earn a composite average score of 2 or better on the Final Project.
 - 70% of students who take an ACSM certification exam will successfully gain a certification credential within 2 attempts.
 - 70% of students who transfer to Sports Medicine-Exercise Science at EMU and Kinesiology at UM will maintain a GPA of 2.8 or better and 70% will graduate within 3 years of transfer.
- Indicate who will score and analyze the data (data must be blind-scored).
 - Performance on Final Project in BIO 225 course as evaluated by full time Life Sciences Faculty.
 - External evaluation by ACSM Certification Exams. Students provide evidence of certification to Life Sciences Faculty.
 - Performance data of transfer students to Sports Medicine-Exercise Science at EMU and Kinesiology at UM.
- Explain the process for using assessment data to improve the program.
The assessment data gathered in this way will provide information for program review and revision. The full time faculty of the Life Sciences department will review the data and determine whether changes in emphasis and/or revisions to the program should be made to improve the outcomes.

REVIEWER	PRINT NAME	SIGNATURE	DATE
Department Chair/Area Director	<i>Esta Grossman</i> <i>Bill Nevers</i>	<i>Esta Grossman</i> <i>William Nevers</i>	<i>1/15/08</i> <i>1/15/08</i>
Dean	<i>Martha Showalter</i>	<i>M. Showalter</i>	<i>1/15/08</i>
Vice President for Instruction <input type="checkbox"/> Approved for Development <input checked="" type="checkbox"/> Final Approval	<i>R</i>	<i>Roger M. Paley</i>	<i>2/11/08</i>
President		<i>Perry Whitworth</i>	<i>4/26/08</i>
Board Approval			

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2/26/08
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Program Information Report

Transfer and University Parallel Programs

Math and Science

Exercise Science (ASESCI)

Associate in Science Degree

Program Effective Term: Fall 2008

The Exercise Science program is designed to prepare students for employment at the entry level in health and fitness-related occupations and/or for higher education by training in the sciences that relate to physical activity, health, fitness, nutrition, wellness, and weight control. Completion of the two-year degree will prepare students for the ACSM certification exams for personal trainer and/or health/fitness instructor. The AS degree in Exercise Science from WCC is designed to prepare students for transfer to a four-year institution that offers degrees in sports medicine-exercise science, kinesiology, movement science, and physical education. Individuals that transfer to four-year institutions in these fields (and in some cases go beyond the four-year degree) can be expected to find employment in a wide variety of occupations, including (but not limited to) physician, physician's assistant, physical therapist, physical therapist assistant, research scientist, fitness manager, worksite wellness coordinator, exercise specialist, clinical exercise physiologist, coach, physical education teacher, and other exercise-related positions.

Continuing Eligibility Requirements:

Students must meet the Computer and Information Literacy Graduation Requirement. See General Education Graduation Requirements in the WCC Bulletin.

General Education Requirements		(30 credits)
ENG 111	Composition I	4
ENG 226	Composition II	3
Speech	Elective(s)	3
MTH 160	Basic Statistics	4
BIO 101	Concepts of Biology	4
Soc. Sci.	Elective(s)*	6
Arts/Human.	Elective(s)	6
Major/Area Requirements		(38 credits)
BIO 103	General Biology II	4
BIO 110	Introduction to Exercise Science	3
BIO 111	Anatomy and Physiology - Normal Structure and Function	5
BIO 201	Physiology of Exercise	4
BIO 215	Cell and Molecular Biology	4
BIO 225	Tests and Measurements in Exercise Science	3
CEM 111	General Chemistry I	4
HSC 131	CPR/AED for the Professional Rescuer and First Aid	1
MTH 178	General Trigonometry	3
PHY 111	General Physics I	4
PSY 100	Introductory Psychology	3
Minimum Credits Required for the Program:		68

Notes:

*Transfer students should select 2 MACRAO approved Social Science courses.