PROGRAM PROPOSAL FORM

| items in general terms. | re when using this form for preliminary approval of a program proposal, as | - | | |
|--|--|---|--|--|
| Final Approval – Check here when a program proposal. For final appro | a completing this form after the Vice President for Instruction has given proval, complete information must be provided for each item. | eliminary approval t | | |
| Program Name: | Exercise Science P | | | |
| Division and Department: | Division of Mathematics, Natural, and Behavioral Sciences Department of Life Sciences ASE | | | |
| Type of Award: | □ AA ⋈ AS □ AAS | | | |
| Effective Term/Year: | ☐ Cert. ☐ Adv. Cert. ☐ Post-Assoc. Cert. ☐ Cert. of Comp. | | | |
| Initiator: | September, 2008 Marvin Boluyt | 31,0505 | | |
| Program Features | | 1978 1978 1978 | | |
| Program's purpose and its goals. Criteria for entry into the program, along with projected enrollment figures. Connection to other WCC programs, as well as accrediting agencies or professional organizations. Special features of the program. | Purpose: The Exercise Science program is designed to prepare students the entry level in health and fitness-related occupations and/or for higher training in the sciences that relate to physical activity, health, fitness, nut weight control. Completion of the two-year degree will prepare student certification exams for personal trainer and/or health/fitness instructor. Exercise Science from WCC is designed to prepare students for transfer institution that offers degrees in Sports Medicine-Exercise Science, Kine Science, and Physical Education. Individuals that transfer to 4-year instifields (and in some cases go beyond the 4-year degree) can be expected in a wide variety of occupations, including (but not limited to) physician assistant, physical therapist, physical therapist assistant, research scientist worksite wellness coordinator, exercise specialist, clinical exercise physical education teacher, and other exercise-related positions. | er education by crition, wellness, and s for the ACSM The AS degree in to a 4-year esiology, Movement stutions in these to find employment, physician's t, fitness manager, | | |
| | Goals: All graduating students will be prepared for the certification exa Trainer" or "Health/Fitness Instructor" by the American College (ACSM), thereby qualifying them for entry level positions in the h industry. Some students will matriculate to 4-year colleges and un successfully graduate from those institutions. Some students will and profession post-graduate education. Entry criteria: None beyond WCC admission criteria Connections: Students will be required to obtain certification by the Re AID/AED). Students are encouraged to become certified as either Trainer", or "Health/Fitness Instructor" by the ACSM Special features: Relies heavily on existing courses at WCC. Proposes 3 Provides a unique COD course in Exercise Science. Provides labe in Motor Control, Biomechanics, and Exercise Physiology. Provide material. Provides a capstone course that integrates testing proced of tests and of scientific literature, and requires students to report conclusions in a scientific journal-style manner. | of Sports Medicine ealth/fitness iversities and continue in graduate d Cross (First er "Personal new courses. pratory experiences es career awareness dures, interpretation | | |
| Need | Given the rapid and unprecedented rise in prevalence of obesit States and in Michigan in the last 3 decades coupled with the re | | | |
| Need for the program with evidence to support the stated need. | th evidence physically demanding jobs in modern economies, there is a need for individuals | | | |

| | 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 | |
| | | nbined degree program culminating in an | |
| | Associate in Science degree in Exercise S | cience from WCC, and a Bachelor of | |
| | Science degree in Kinesiology-Movement | | |
| | 4. UM seeks qualified transfer students in Physical Education (working with Pat | | |
| | VanVolkinburg and Julie Simon at UM to | | |
| Program Outcomes/Assessment | Outcomes | Assessment | |
| | Demonstrate proficiency in interpreting & | 1. Performance on Final Project in BIO | |
| State the knowledge to be gained, skills to | evaluating performance and biometric data | 225 Tests and Measurements in | |
| be learned, and attitudes to be developed | | Exercise Science | |
| by students in the program. | 2. Demonstrate competence in the knowledge, skills, | | |
| | and abilities required of the Certified Personal Trainer | 2. ACSM Certification Examinations (one | |
| Include assessment methods that will | or Health/Fitness Instructor | of these) | |
| be used to determine the effectiveness | | A. Personal Trainer | |
| of the program. | 3. Demonstrate success in Exercise Science | B. Health/Fitness Instructor | |
| 1 . 0 | coursework at 4-year institutions | 2 Desference data of the control of | |
| | | 3. Performance data of transfer students at 4-year schools | |
| | | 4-year schools | |

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

| | MACRAO Requirements (33 credits) | |
|--|--|--------------|
| | 1. English Writing Requirement | (7 credits) |
| List the courses in the program as they should | ENG 111 Composition I | |
| ppear in the catalog. List minimum credits | ENG 226 Composition II | 3 |
| equired. Include any notes that should | | |
| ppear below the course list. | 2. Math/Science Requirement | (8 credits) |
| • • | ¹ MTH 160 Basic Statistics | |
| | BIO 101 Concepts of Biology | 4 |
| | 3. Humanities Requirement | (9 credits) |
| | Complete one speech course: | 3 |
| | COM 101, 102, 142, 183, 200, or 225 | |
| | Complete two courses: See note below | 6 |
| | Choose from courses approved by WCC to satisfy | • |
| | The MACRAO humanities requirement. | |
| | 4. Social Science Requirement | (9 credits) |
| | PSY 100 Introductory Psychology | |
| | Complete two courses: See note below | 6 |
| | Choose from courses approved by WCC to satisfy | |
| | The MACRAO social science requirement | |
| | (See the WCC catalog) | |
| | Exercise Science Specific Requirements (34 cred | dits) |
| | BIO 103 General Biology II | 4 |
| | ² BIO 110 Physiology of Exercise (new) | |
| | * BIO 111 Anatomy & Phys-Normal Structure & Func | 5 |
| | ² BIO 201 Biology of Exercise (new) | |
| | BIO 215 Cell and Molecular Biology | |
| | CEM 111 General Chemistry I | |
| | MTH 178 General Trigonometry | |
| | PHY 111 General Physics I | |
| | HSC 131 CPR/AED/First Aid | |
| | 2.3 BIO 225 Tests & Measurements in Exercise Sci (new) | 3 |
| | Total for AS degree in Exercise Science | (68 credits) |
| | Prerequisite for BIO 225 | |
| | 2 New course | |
| | ³ Capstone course | |
| | | |

| Budget | | START-UP COSTS | ONGOING COSTS | |
|--|--|---|-----------------|--|
| Specify program costs in the following | Faculty | \$ see attached | \$ see attached | |
| areas, per academic year: | Training/Travel \$1,000.00 | | \$1,000.00 | |
| See attached budget planning detail | Materials/Resources . | | • | |
| ood actached badget planning detail | Facilities/Equipment | \$35,000.00 | \$1,000.00 | |
| | Other | • | • | |
| Program Description for Catalog and | TOTALS: | \$ 36,000 is designed to prepare students | \$ 2,000. | |
| | 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 - N | one | | |
| | 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:

| Assessment plan: | A1 | 111 | D | IN I C . I |
|---------------------------|----------------------|----------------------|------------------------|------------------------|
| Learning outcomes to | Assessment tool | When assessment will | Describe population to | Number of students to |
| be assessed | | take place | be assessed | be assessed |
| A. Demonstrate | Performance on Final | Winter 2010 Annually | All students in all | All students who |
| proficiency in | Project in BIO 225 | thereafter | sections of BIO 225 | complete BIO 225 |
| interpreting & | Tests and | | | |
| evaluating | Measurements in | | | |
| performance data and | Exercise Science | | | |
| biometric data | | | | İ |
| B. Demonstrate | ACSM Certification | Winter 2010 Annually | All students who take | All students who to |
| competence in the | Examinations (one of | thereafter | the certification | take the certification |
| knowledge, skills, and | these) | | exam(s) and agree to | exam(s) and agree to |
| abilities required of the | A. Personal Trainer | | share the outcome(s) | share the outcome(s) |
| Certified Personal | B. Health/Fitness | | | 1 |
| Trainer or | Instructor | | | |
| Health/Fitness | | | | |
| Instructor Exam | | | | |

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

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.
 - A. Performance on Final Project in BIO 225 course (rubric attached).
 - B. External evaluation (ACSM Certification Exam results reported by students to Faculty).
 - C. Performance data of transfer students to EMU and UM.
- 2. Indicate the standard of success to be used for this assessment.
 - A. 70% students who complete BIO 225 will earn a composite average score of 2 or better on the Final Project.
 - B. 70% of students who take an ACSM certification exam will successfully gain a certification credential within 2 attempts.
 - C. 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.
- 3. Indicate who will score and analyze the data (data must be blind-scored).
 - A. Performance on Final Project in BIO 225 course as evaluated by full time Life Sciences Faculty.
 - B. External evaluation by ACSM Certification Exams. Students provide evidence of certification to Life Sciences Faculty.
 - C. Performance data of transfer students to Sports Medicine-Exercise Science at EMU and Kinesiology at UM.
- 4. 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 | Esta Grossman. Bill Nevers | Rota Gressman Willia never | 1/15/08 |
| Dean | Merthe Showal Kr | m. Showat | 1/15/08 |
| Vice President for Instruction Approved for Development Final Approval | R | Rose M. Palay. | 2/11/08 |
| President | | Your Chitwarth | 4/26/08 |
| Board Approval | | | |

10gged 1/15/08 5 2/24/08

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 fouryear 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 Educa | tion Requirements | | (30 credits) |
|--------------------------|---|--|---|
| ENG 111 ENG 226 | Composition I | ********************************** | 1 |
| Speech | Composition II Elective(s) | | ta e kila etikkilisetki, oro terkiksas kilasti, e eti <mark>s</mark> |
| MTH 160 BIO 101 | Basic Statistics Concepts of Biology | | 3 4. – 18. – British (1986), propinski propinski propinski propinski propinski propinski propinski propinski pro |
| Soc. Sci. Arts/Human. | Elective(s)* Elective(s) | 1000 | |
| Major/Area Re BIO 103 | equirements General Biology II | 7-2-75 | (38 credite) |
| BIO 110 | Introduction to Exercise Science | | |
| BIO 111 BIO 201 | Anatomy and Physiology - Normal Structure and Fur Physiology of Exercise | ction | alandar eta derra elifa di Morretto della Silla di Marie Silla della Silla della Silla della Silla della Silla |
| BIO 215 BIO 225 | Cell and Molecular Biology Tests and Measurements in Exercise Science | | |
| CEM 111 HSC 131 | General Chemistry I CPR/AED for the Professional Rescuer and First Aid | | าก การเกราะเกราะส์ การสโดยสมัยเกาะสารเกราะสามารถสิงเลือ |
| MTH 178 PHY 111 | General Trigonometry General Physics I | | |
| PSY 100 | Introductory Psychology | | |
| Minimum Cred | its Required for the Program: | | 68 |

Notes:

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