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

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.

Math and Science

Learn more about math or science through this associate degree program.

General Studies in Math and Natural Sciences (ASGSMS)

Associate in Science Degree

Program Effective Term: Fall 2018

Program is also available online

This program allows students to design a program of study to meet their individual needs. This may be a good option if students are undecided about a major and want to explore a variety of discipline areas with a concentration in math and natural sciences. The program also allows students to customize their coursework to the requirements of the senior college or university to which they are transferring. Students should begin by meeting with a counselor who will assist them in developing a program of study that meets all of the College's graduation requirements. A counselor can also help students determine their interests and career and educational goals as well as provide transfer and career information.

Math/Science Concentration

Complete a concentration in math or science 15 credit hours from no more than two disciplines chosen from Biology, Chemistry, Environmental Science, Geology, Math or Physics (A minimum of 6 credits at the 200 level is strongly recommended). Students transferring to EMU should select from the following WCC courses: BIO 161, BIO 162, BIO 208, BIO 215, BIO 227, BIO 228; CEM 105, CEM 111, CEM 122, CEM 140, CEM 211, CEM 222; ENV 101, ENV 105; GLG 100, GLG 103, GLG 104, GLG 114, GLG 276; MTH 191, MTH 192, MTH 197, MTH 293, MTH 295; PHY 111, PHY 122, PHY 211, PHY 222. Please see an advisor to select courses that will meet the requirements of the college to which you are transferring.

Concentration 2

Complete a second concentration. Select 9 credits from no more than two disciplines listed below (A minimum of 3 credits at the 200 level is strongly recommended). Select from Anthropology, Arabic, Art, Astronomy, Biology, Chemistry, Chinese, Communication, Computer Information Systems, Computer Networking Technology, Computer Science, Computer Systems Security, Computer Systems Technology, Criminal Justice, Dance, Drama, Economics, English, Environmental Science, French, Geography, Geology, German, Health Science, History, Humanities, Math, Music, Philosophy, Physics, Political Science, Psychology, Sociology or Spanish.

First Semes	ster	(16 credits)
ENG 111	Composition I	4
	Concentration 2: select a course	3
	Math/Science concentration: select a course	3
	Soc. Sci. Elective(s) 1	3
	Nat. Sci. Elective(s)	3
Second Sen	nester.	(13 credits)
	Speech/Comp. Elective(s)	3
	MTH 191 or higher	4
	Arts/Human. Elective(s) 1	3
	Math/Science concentration: select a course	3
Third Seme	ster / Carlo Line Company of the Com	(15 credits)
	Elective(s) to reach a minimum 60 credits	3
	Concentration 2: select a course	3
	Math/Science concentration: select a course	3
	Math/Science concentration: select a course	3
Monday Tune	25 2018 11:6:10 a m	Page 1 of 2

	Nat. Sci. Lab Elective(s)	3
ourth S	emester	(16 credits)
	Arts/Human. Elective(s) 2	3
	Concentration 2: select a course	3
	Math/Science concentration: select a course	3
	Soc. Sci. Elective(s) 2	3
	General Education Elective(s) (0-1 credits) to reach a minimum 30 General Education Credits	1
	Elective(s) to reach a minimum 60 credits	3
4inimum	Credits Required for the Program:	60

Notes:

Courses used to meet General Education Requirements cannot be counted toward the minimum credits for the concentrations.

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

Program Code: ASGSMS	Program Name: General	Studies in Moth +
Division Code: M9E	Department:	Science

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:

- 1. Review each general education area under Requested Changes below and respond as needed.
- 2. Attach the semester program layout showing the current program listing from the WCC catalog.
 - a. Indicate any changes to be made on the semester layout.
 - b. Draw a line through any courses that should be removed on the semester layout.
 - c. Write in any courses that need to be added on the semester layout.
- 3. 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 Mathematics	3 credits 3 - 4 credits	2 nd Course in English Composition or one course in Communication	3 - 4 credits
Natural Sciences	3 - 4 credits	Mathematics	3 - 4 credits
Social & Behavioral Sciences	6 credits 6 credits	Natural Sciences from 2 disciplines including one lab course	7 - 9 credits
Arts & Humanities Critical Thinking	0 credits	Social & Behavioral Sciences from 2 disciplines	6 credits
Computer & Information Literacy	3 credits	Arts & Humanities from 2 disciplines Elective Credits to reach a minimum of 30 credit hours	6 credits 0 - 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
Gener	ral Education Area
chang	h Composition – The requirement for one writing/English composition course remains the same. No ses will be made unless specifically requested below. (Use Writing Elective or ENG 111) and Change:
	ourse in English Composition or one course in Communication previously required both a second composition/writing course and a communication course. Your
option	ns are:
1.	Allow students to select any course that meets composition/writing or communication (recommended).
2.	
3.	Require students to take a specific communication course (identify course below and on semester layout).
Reque	ested Change: In semester Indelete Speech

Office of Curriculum & Assessment 10/4/2017

http://www.wccnet.edu/departments/curriculum

1. Continue to releave it there specify either 2. Remove the coredit hours. 3. Remove the coredits as need as need the coredits as nearly as need the coredits as need the coredits as need the coredi	If you previously used "Corra specific course or a list of computer and information liteded to meet the minimum ach a minimum of 30 credit dit Hours" will be created an	mputer and Information Lift courses from which to chiteracy course if the progratic and replace of 60 credit hours. Thours – A course titled "Gottle and the progratic and the programment and the programmen	oose. Imm will still meet the min the course with elective General Education Credit(need to imum of 60 or other
The requirement for a 1. Continue to releave it there specify either 2. Remove the coredit hours. 3. Remove the coredits as need Required Change:	If you previously used "Cor r a specific course or a list of computer and information li- computer and information li- eded to meet the minimum	mputer and Information Lift courses from which to chiteracy course if the progratical strength of 60 credit hours.	oose. am will still meet the min the course with elective	need to imum of 60 or other
1. Continue to releave it there specify either 2. Remove the coredit hours. 3. Remove the coredits as needs	If you previously used "Cor a specific course or a list of computer and information li- computer and information li-	mputer and Information Li f courses from which to ch iteracy course if the progra iteracy course and replace	oose. am will still meet the min	need to imum of 60
The requirement for one of the requirement for o	. If you previously used "Cor r a specific course or a list of computer and information li	mputer and Information Li f courses from which to ch iteracy course if the progra	oose. am will still meet the min	need to imum of 60
The requirement for one of the requirement for o	. If you previously used "Cor a specific course or a list of	mputer and Information Li f courses from which to ch	oose.	need to
he requirement for one of the requirement for one of the requirement for the requireme	. If you previously used "Cor	mputer and Information Li	teracy Course," you will i	need to
he requirement for a	edulle a specific comparer c	Logisc, ii a specific coarse	is required in your progra	
	nation Literacy computer and information li equire a specific computer o	iteracy has been removed.	Your options are:	am, we will
Optional Change:				
ame. No changes wil	om 2 disciplines – The requi I be made unless specifically ent here. The same course o	y requested below. (Note:	A department can desigr	nate a COM
Optional Change:	2 dissiplines The resuit	iromant for two arts and h	umanities courses remai	ns the
	ame. No changes will be ma	ade unless specifically requ	lested below.	
ocial & Behavioral S	ciences from 2 disciplines –	- The requirement for two	social and behavioral scie	ence
Requested Change:	the state of the s	Add gen Er		1051
Add a second specific cours	natural science course in th es are required, include one	e semester snown on the course identified as a lab	science course.	/. UTHE33
1. No change ne	eded – a second natural scie	ence course is already incl	uded in my program.	d Linless
latural Sciences fron VCC previously requi	n 2 disciplines including one red one natural science cour	: lab course rse. Your options are:		
optional Change:	NONE			
	r AS degrees. Please identify	y an alternate course or lis	t "Math elective".	
neet the MTA require	equirement for one mathemement have changed slightly	/. MTH 148, 149 and 167 c	lo not meet the general ϵ	education
		- Land	The same	es that
•		H Mark	Shall by	
3. Add a specific	program-related course (ple	ease add the course in the	semester it should be tal	ken on the
2. Replace the co	ourse with elective credits as	is needed to reach a minim	num of 60 credit hours.	
1 Dadwas the su	e credit hours. Your options	s are: program total is over 60 /r	ecommended)	
e	 Reduce the number of the control of th	 Reduce the number of credit hours if the Replace the course with elective credits a Add a specific program-related course (placemester layout). 	 Reduce the number of credit hours if the program total is over 60 (r Replace the course with elective credits as needed to reach a minim Add a specific program-related course (please add the course in the semester layout). 	 Reduce the number of credit hours if the program total is over 60 (recommended). Replace the course with elective credits as needed to reach a minimum of 60 credit hours. Add a specific program-related course (please add the course in the semester it should be tall semester layout).

Reviewer	Print Name	Signature	Date
Initiator	Lisa Rombes		11-2-1
Department Chair	115a Rombas	Jalin	11-2-
Division Dean/ Administrator	Kristin Good	Musterson	11-2-17
Vice President for Instruction		1	1/9/18

Entered in: A Banner

C&A Database

☐ Log File

(ASGSMS)

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.

Business (AABAS)

Computer Science: Programming in Java (ASCSPJ) See School of Information Technology

Criminal Justice (AACJ)

Education, Early Childhood (AAECE)

Education, Elementary (AAELEM)

Education, Secondary (AASECO)

Environmental Science (ASENVS)

1. Environmental Science (ENV1)

2. Environmental Science and Society (ENV2)

Exercise Science (ASESCI)

General Studies in Math and Natural Sciences (ASGSMS)

Honors in the Liberal Arts (AAHLA)

Human Services (AAHUST)

Information Systems: Programming in C++ (ASISPC) See School of Information Technology

Liberal Arts Transfer (AALAT)

Math and Science (ASMSAS)

- 1. Pre-Medicine Concentration (BMED or CMED)
- 2. Mathematics Concentration (MATH)
- 3. Physics/Pre-Engineering Concentration (PHYS)
- 4. Pre-Actuarial Science Concentration (PPAS)
- 5. Pre-Pharmacy Concentration (PPHA)

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.

Math and Science

Learn more about math or science through this associate degree program.

General Studies in Math and Natural Sciences (ASGSMS) Associate in Science Degree

Program Effective Term: Fall 2015

Program is also available online

This program allows students to design a program of study to meet their individual needs. This may be a good option if students are undecided about a major and want to explore a variety of discipline areas with a concentration in math and natural sciences. The program also allows students to customize their coursework to the requirements of the senior college or university to which they are transferring. Students should begin by meeting with a counselor who will assist them in developing a program of study that meets all of the College's graduation requirements. A counselor can also help students determine their interests and career and educational goals as well as provide transfer and career information.

Math/Science Concentration

Complete a concentration in math or science 15 credit hours from no more than two disciplines chosen from Biology, Chemistry, Environmental Science, Geology, Math or Physics (A minimum of 6 credits at the 200 level is strongly recommended). Students transferring to EMU should select from the following WCC courses: BIO 161, BIO 162, BIO 208, BIO 215, BIO 227, BIO 228; CEM 105, CEM 111, CEM 122, CEM 140, CEM 211, CEM 222; ENV 101, ENV 105; GLG 100, GLG 103, GLG 104, GLG 114, GLG 276; MTH 191, MTH 192, MTH 197, MTH 293, MTH 295; PHY 111, PHY 122, PHY 211, PHY 222. Please see an advisor to select courses that will meet the requirements of the college to which you are transferring.

Concentration 2

Complete a second concentration. Select 9 credits from no more than two disciplines listed below (A minimum of 3 credits at the 200 level is strongly recommended). Select from Anthropology, Arabic, Art, Astronomy, Biology, Chemistry, Communication, Computer Information Systems, Computer Networking Technology, Computer Science, Computer Systems Security, Computer Systems Technology, Criminal Justice, Dance, Drama, Economics, English, Environmental Science, French, Geography, Geology, German, Health Science, History, Humanities, Math, Music, Philosophy, Physics, Political Science, Psychology, Sociology or Spanish.

ENG 111	Composition I Concentration 2: select a course Math/Science concentration: select a course Soc. Sci. Elective(s) Speech Elective(s)	4 3 3 3 3 3 3
ENG 226	Composition II MTH 191 or higher Arts/Human, Elective(s) Math/Science concentration: select a course	3 4-5 3 3
	Computer Lit. Elective(s) Concentration 2: select a course Math/Science concentration: select a course Math/Science concentration: select a course Nat. Sci. Elective(s)*	3 3 3 3 3 4
	Arts/Human. Elective(s) Concentration 2: select a course Math/Science concentration: select a course Soc. Sci. Elective(s) Electives for total of 60 credits	3 3 3 3 3 3 3
Minimum Cr	edits Required for the Program:	60

Minimum Credits Required for the Program:

Notes:

^{*} Students following the Michigan Transfer Agreement (MTA) should complete two natural science courses from two different disciplines. One course must have a lab component. See WCC catalog for eligible courses.

Courses used to meet General Education Requirements cannot be counted toward the minimum credits for the concentrations.

General Studies in Math and Natural Sciences (ASGSMS) Associate in Science Degree. Program is also available online.

Description

This program allows students to design a program of study to meet their individual needs. This may be a good option if students are undecided about a major and want to explore a variety of discipline areas with a concentration in math and natural sciences. The program also allows students to customize their coursework to the requirements of the senior college or university to which they are transferring. Students should begin by meeting with a counselor who will assist them in developing a program of study that meets all of the College's graduation requirements. A counselor can also help students determine their interests and career and educational goals as well as provide transfer and career information.

Math/Science Concentration

Complete a concentration in math or science 15 credit hours from no more than two disciplines chosen from Biology, Chemistry, Environmental Science, Geology, Math or Physics (A minimum of 6 credits at the 200 level is strongly recommended). Students transferring to EMU should select from the following WCC courses: BIO 103, BIO 161, BIO 162, BIO 208, BIO 215, BIO 227, BIO 228; CEM 105, CEM 111, CEM 122, CEM 140, CEM 211, CEM 222; ENV 101, ENV 105; GLG 100, GLG 103, GLG 104, GLG 114, GLG 276; MTH 191, MTH 192, MTH 197, MTH 293, MTH 295; PHY 111, PHY 122, PHY 211, PHY 222. Please or see an advisor to select courses that will meet the requirements of the college to which you are transferring.

Concentration 2

Complete a second concentration. Select 9 credits from no more than two disciplines listed below (A minimum of 3 credits at the 200 level is strongly recommended). Select from Anthropology, Arabic, Art, Astronomy, Biology, Chemistry, Communication, Computer Information Systems, Computer Networking Technology, Computer Science, Computer Systems Security, Computer Systems Technology, Criminal Justice, Dance, Drama, Economics, English, Environmental Science, French, Geography, Geology, German, Health Science, History, Humanities, Math, Music, Philosophy, Physics, Political Science, Psychology, Sociology or Spanish.

Contact Information

Division
Math, Science & Health
Department

Physical Sciences Dept

Advisors

Jerrell McCowin

Requirements

Done 3/24/15 m

(Items marked in orange are available online.)

First Semester

Class	Title	Credits
ENG 111	Composition I	4
	Concentration 2: select a course	3
	Math/Science concentration: select a course	3
Elective(s)	Social and Behavioral Science	3
Elective(s)	Speech	3
Total		16

Second Semester

Class	Title	Credits
ENG 226	Composition II	3
	MTH 191 or higher	4 - 5
Elective(s)	Arts and Humanities	3
	Math/Science concentration: select a course	3
Total		13 - 14

Third Semester

Class	Title	Credits
Elective(s)	Computer and Information Literacy	3
	Concentration 2: select a course	3
	Math/Science concentration: select a course	3
	Math/Science concentration: select a course	3
Elective(s)	Natural Sciences *	4
Total		16

Fourth Semester

Class	Title	Credits
Elective(s)	Arts and Humanities	3
	Concentration 2: select a course	3
	Math/Science concentration: select a course	3
Elective(s)	Social and Behavioral Science	3
	Electives for total of 60 credits	3
Total		15
Total Cred	its Required	60 - 61

Footnotes

* Students following the Michigan Transfer Agreement (MTA) should complete two natural science courses from two different disciplines. One course must have a lab component. See WCC catalog for eligible courses.

Courses used to meet General Education Requirements cannot be counted toward the minimum credits for the concentrations.

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.

Business (AABAS)

Computer Science: Programming in Java (ASCSPJ) See School of Information Technology

Criminal Justice (AACJ)

Education, Early Childhood (AAECE)

Education, Elementary (AAELEM)

Education, Secondary (AASECO)

Environmental Science (ASENVS)

- 1. Environmental Science (ENV1)
- 2. Environmental Science and Society (ENV2)

Exercise Science (ASESCI)

General Studies in Math and Natural Sciences (ASGSMS)

Human Services (AAHUST)

Information Systems: Programming in C++ (ASISPC) See School of Information Technology

Liberal Arts Transfer (AALAT) Math and Science (ASMSAS)

- 1. Pre-Medicine Concentration (BMED or CMED)
- 2. Mathematics Concentration (MATH)
- 3. Physics/Pre-Engineering Concentration (PHYS)
- 4. Pre-Actuarial Science Concentration (PAS)
- 5. Pre-Pharmacy Concentration (PPHA)

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.

Math and Science

Learn more about math or science through this associate degree program.

General Studies in Math and Natural Sciences (ASGSMS) Associate in Science Degree

Program Effective Term: Fall 2015

Program is also available online

This program allows students to design a program of study to meet their individual needs. This may be a good option if students are undecided about a major and want to explore a variety of discipline areas with a concentration in math and natural sciences. The program also allows students to customize their coursework to the requirements of the senior college or university to which they are transferring. Students should begin by meeting with a counselor who will assist them in developing a program of study that meets all of the College's graduation requirements. A counselor can also help students determine their interests and career and educational goals as well as provide transfer and career information.

Math/Science Concentration

Complete a concentration in math or science 15 credit hours from no more than two disciplines chosen from Biology, Chemistry, Geology, Math or Physics (A minimum of 6 credits at the 200 level is strongly recommended). Students transferring to EMU should select from the following WCC courses: BIO 103, BIO 208, BIO 215, BIO 227, BIO 228; CEM 111, CEM 122, CEM 211, CEM 222; GLG 100, GLG 104, GLG 104, GLG 114, GLG 276; MTH 191, MTH 192, MTH 197, MTH 293, MTH 295; PHY 111, PHY 122, PHY 211, PHY 222 or see an advisor to select courses that will meet the requirements of the college to which you are transferring.

Concentration 2

Complete a second concentration. Select 9 credits from no more than two disciplines listed below (A minimum of 3 credits at the 200 level is strongly recommended). Select from Anthropology, Arabic, Art, Astronomy, Biology, Chemistry, Communication, Criminal Justice, Dance, Drama, Economics, English, French, German, Health Science, History, Math, Music, Philosophy, Physics, Political Science, Psychology, Sociology or Spanish.

ENG 111	Composition I Concentration 2: select a course Math/Science concentration: select a course Soc. Sci. Elective(s) Speech Elective(s)	4 3 3 3 3 3
ENG 226	Composition II MTH 191 or higher Arts/Human. Elective(s) Math/Science concentration: select a course	3 4-5 3 3
	Computer Lit. Elective(s) Concentration 2: select a course Math/Science concentration: select a course Math/Science concentration: select a course Nat. Sci. Elective(s)*	3 3 3 3 4
	Arts/Human. Elective(s) Concentration 2: select a course Math/Science concentration: select a course Soc. Sci. Elective(s) Electives for total of 60 credits	3 3 3 3 3
Minimum Cred	its Required for the Program:	60

Notes:

Courses used to meet General Education Requirements cannot be counted toward the minimum credits for the concentrations.

^{*} Students following the Michigan Transfer Agreement (MTA) should complete two natural science courses from two different disciplines. One course must have a lab component. See WCC catalog for eligible courses.

Effective Term: Fall 2015

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code:

Program Code: ASGSMS	Program Name: General Studies in Math and Natural Sciences Effective Term: Fall 2015					
Division Code: MSH	Department: Physical Sciences					
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:						
Rationale for proposed changes or discontinuation: Following the development of additional Geology courses, it is now possible to compete enough GLG credits for a concentration.						
Financial/staffing/equi None	pment/space implications:					
List departments that have been consulted regarding their use of this program.						
Signatures:						
Reviewer	Print Name	Signature	Date			
Initiator	Suzanne Albach	Som M Albach	12/03/2014			
Department Chair	Kathy Butcher	Fathle Bitcher	12/04/2014			
Division Dean/Administrat	or Kris Brandemuehl	Husto Gardennell	12/8/04			
Vice President for Instruction	on William Abernethy	155 171	1/21/15			
Do not write in shaded age.	Do not write in shaded area, Entered in: Banner 26/5/1008 A Database 2/6/5/1008 File 2/6 MO Board Approval					
Do not write in snaucu area. I	WILLIAM III. DAIMCIEDATO COCU DAIMDASC -	Told I me with power white and				

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.

logged 12/8/14 Syv
Office of Curriculum & Assessment

ACADEMICS

Associate in Science Degree

2012 - 2013 2013 - 2014 2014 - 2015

Description

This program allows students to design a program of study to meet their individual needs. This may be a good option if students are undecided about a major and want to explore a variety of discipline areas with a concentration in math and natural sciences. The program also allows students to customize their coursework to the requirements of the senior college or university to which they are transferring. Students should begin by meeting with a counselor who will assist them in developing a program of study that meets all of the College's graduation requirements. A counselor can also help students determine their interests and career and educational goals as well as provide transfer and career information.

Math/Science Concentration

Complete a concentration in math or science 15 credit hours from no more than two disciplines chosen from Biology, Chemistry, Math or Physics (A minimum of 6 credits at the 200 level is strongly recommended). Study to the control of the credits at the 200 level is strongly recommended. Study to the control of the credits at the control minimum of 6 credits at the 200 level is strongly recommended). Students transferring to EMU should select from the following WCC courses: BIO 103, BIO 208, BIO 215, BIO 227, BIO 228; CEM 111, CEM 122, CEM 211, CEM 222; MTH 191, MTH 192, MTH 197, MTH 293, MTH 295; PHY 111, PHY 122, PHY 211, PHY 222 or see an advisor to select courses that will meet the requirements of the college to which you are transferring.

VGLG100, 103, 104, 114; 276;

Concentration 2

Complete a second concentration. Select 9 credits from no more than two disciplines listed below (A minimum of 3 credits at the 200 level is strongly recommended). Select from Anthropology, Arabic, Art, Astronomy, Biology, Chemistry, Communication, Criminal Justice, Dance, Drama, Economics, English, French, German, Health Science, History, Math, Music, Philosophy, Physics, Political Science, Psychology, Sociology or Spanish.

Contact Information

Division: Math, Science & Health Department: Physical Sciences Dept Advisors:

Requirements

First Semester

Class	Title	Credits
. W1111	Composition I	4
	Concentration 2: select a course	3
	Math/Science concentration: select a course	3
FORM Ny	Navigora, e Alexa, in introvenda 💌	3
(1 sher)	Street	3
Total		16

Second Semester

Class	Title	Credits
Fig. 129	Composition II	3
	MTH 191 or higher	4 - 5
	and effects of	3
	Math/Science concentration: select a course	3
Total		13 - 14

Third Semester

Class	Title	Credits
	Parallel of Manager and the	3
	Concentration 2; select a course	3
	Math/Science concentration: select a course	3
	Math/Science concentration: select a course	3
News on	country fineto_*	4
Total		16

Fourth Semester

Class	Title	Credits
r te tentişli	And self-recording	3
	Concentration 2: select a course	3
	Math/Science concentration: select a course	3
Sito tigeto)	An in eggl Bar in wyd an ei go 🇨	3
	Electives for total of 60 credits	3
Total		15

Total Credits Required: 60 - 61

Footnotes

* Students following the Michigan Transfer Agreement (MTA) should complete two natural science courses from two different disciplines. One course must have a lab component. See WCC catalog for eligible courses.

*Transfer students attempting to satisfy MACRAO should complete an additional 2-3 credit hours in Social Science courses.

Courses used to meet General Education Requirements cannot be counted toward the minimum credits for the concentrations.

Home / Academics / Services / Activities / News & Events / About Us / Contact Us / Johs © 2014 Washtenaw Community College, 4808 E. Huron River Drive, Ann Arbor, MI 48105-4800, 734-973-3300

Feedback & Suggestions | Social Media Directory

12/3/2014 12:17 PM

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.					
Program Name:	General Studies in Math and Natural Science	Program			
Division and Department:	MNB – Math, Natural and Behavioral Sciences				
Type of Award:	☐ AA ☐ AS ☐ AAS ☐ Cert. ☐ Post-Assoc. Cert. ☐	Cert. of Comp.			
Effective Term/Year:	Fall 2009	CIP Code:			
Initiator:		<u>24.0</u> 102			
Program Features 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.	This request is for a reactivation and modification of the General Studies in Math and Natural Science degree program. The goal of the General Studies in Math and Natural Science is to provide a more flexible A.S. degree option for transfer students pursuing general math and science programs. Students complete general education requirements, fifteen (15) credits toward a major and nine (9) credits toward a minor in preparation for transfer to a 4-year institution. This program utilizes existing courses that have already been reviewed and articulated to 4-year colleges. No special criteria are required for enrollment in this program. Potential Enrollment: Between 2002-03 and 2006-07, there was an average of 32 graduates per academic year in the original version of this program.				
Need for the program with evidence to support the stated need.	Based on evidence provided by Eastern Michigan University, a number of students are transferring without completing their WCC Associate Degree. The existing WCC program, the Associate in Science in Math and Science, was designed to articulate with specific programs (Computer Science, Math, Pre-Engineering/Physics and Pre-Medicine/Biology or Chemistry). We find that students interested in transferring into EMU programs such a General Biochemistry or General Chemistry are required to complete unnecessary courses to complete the existing WCC degree. This program provides flexibility without sacrificing academic rigor. Preparation for a major and minor at a 4-year school is essential to completing a baccalaureate degree in a 2 + 2 scenario.				
Program Outcomes/Assessment	Outcomes	Assessment method			
State the knowledge to be gained, skills to be learned, and attitudes to be developed by students in the program.	Students will successfully transfer to and successful performance at a four-year college in a related program.	WCC follow-up graduation survey data. Transfer data from EMU.			
Include assessment methods that will be used to determine the effectiveness of the program.					

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

Curriculum	1. Complete the Gene	eral Education Requirements for the	Associate in Science Degree. Transfer	
Tiot the governor in the same of	students are encour	raged to complete the MACRAO requ	uirements.	
List the courses in the program as they shou appear in the catalog. List minimum credits	General Education	Requirements:	30 - 31 credits	
required. Include any notes that should	ENG 111			
appear below the course list.	ENG 111	Composition I	4	
	ENG 226	Composition II	3	
	Speech	Elective(s)	. 3	
	Math 191 or above		5- 4	
	Nat. Sci.	Elective(s)*	3-4	
	Soc. Sci.	Elective(s) **	6	
	Arts/Human.	Elective(s)	6	
	2. Complete a concen-	tration in Math or Science	15 credits	
	15 credit hours from (A minimum of six (n up to two disciplines chosen from I (6) credits at the 200 level is strongly	Biology, Chemistry, Math or Physics recommended)	
	Students transferring to EMU should select from the following WCC courses: BIO 1 215, 227, 228; CEM 111, 122, 211, 222; MTH 191, 192, 197, 293, 295; PHY 111, 12 222 or see an advisor to select courses that will meet the requirements of the college which you are transferring.			
	3. Complete a second	concentration.	9 credits	
	9 credits from up to two disciplines listed below (A minimum of three (3) credits at the 200 level is strongly recommended)			
	Justice, Dance, Drai	pology, Art, Astronomy, Biology, Ch ma, Economics, English, French, He s, Political Science, Psychology, Soci	alth Science, History, Math, Music,	
	4. Electives to comple	te a minimum of 60 credits hours	5 – 6 credits	
	Minimum Credits Require	ed for Associate Degree	60 credits	
	Notes:			
	for eligible courses. **Transfer students attemplin Social Science courses Students must meet the Con Education Graduation Requ	relect a lab-based, MACRAO-approventing to satisfy MACRAO should compuputer and Information Literacy Graduirements in the WCC Bulletin. Trail Education Requirements cannot be	olete an additional 2-3 credit hours	
	nine (9) credits for concentr		e countea towara the minimum of	
Budget		START-UP COSTS	ONGOING COSTS	
Specify program costs in the following reas, per academic year:	Faculty	\$ 0.	\$ 0.	
icas, per academic year.	Training/Travel	0 .	0 .	
	Materials/Resources	0 .	0 .	
	Facilities/Equipment	0 .	0 .	
	Other	0 .	0 .	
		1900 A		

TOTALS:

0

Program Description for Catalog and Web site	This program allows students to design a program of study to meet their individual needs. This may be a good option if students are undecided about a major and want to explore a variety of discipline areas with a concentration in math and natural sciences. The program also allows students to customize their coursework to the requirements of the senior college or university to which they are transferring. Students should begin by meeting with a counselor who will assist them in developing a program of study that meets all of the College's graduation requirements. A counselor can also help students determine their interests and career and educational goals as well as provide transfer and career information.
Program Information	Accreditation/Licensure - None
	Advisors – Math and Science Advisors
	Advisory Committee - None
	Admission requirements – No Additional Requirements
	Articulation agreements – In progress with EMU
Assessment plan	Continuing eligibility requirements - None

Assessment plan:

Program outcomes to be assessed	Assessment tool	When assessment will take place	Courses/other populations	Number students to be assessed
Students will successfully transfer to a four-year college in a related program	WCC follow-up graduation survey data. Transfer data from EMU.	Winter 2011 and every three years thereafter.	Random selection from students who completed the program within the past three years	Approximately 50% of the graduates.
Students will perform successfully at a four-year college in a related program	WCC follow-up graduation survey data. Transfer data from EMU.	Winter 2011 and every three years thereafter.	Random selection from students who completed the program within the past three years	Approximately 50% of the graduates.

Scoring and analysis plan:

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

EMU transfer data will be generated by Eastern Michigan University. Faculty in the Math and Science departments at WCC will review the data to determine transfer rate and transfer success statistics. Graduate survey data is collected and generated by Institutional Research. This self-reported, supplemental data will be used to identify students who successfully transfer to institutions other than EMU.

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

70% of the students will have enrolled in further education within two years.

70% of the students who transfer to EMU will demonstrate success (earn a grade of "C" or better) in courses in the area of math and science.

3. Indicate who will score and analyze the data.

Faculty volunteers from the Math and Science departments

4. Explain how and when the assessment results will be used for program improvement.

Assessment data will be reviewed during divisional meetings. Areas of weakness will be identified and changes made to course or program requirements will be implemented as needed.

REVIEWER	PRINT NAME	SIGNATUR).	DATE
Department Chair/Area Director	Lisa Rombes	Mac Conha	
Department Chair/Area Director	David Shier	Day Shin	2/19/09
Dean	Martha Showalter	marina Lours	2/12/09
Vice President for Instruction Approved for Development Final Approval	Roger Palay	Reger M. Palas.	3/20/09
President	Larry Whitworth	Pary Continuenth	4/28/09
Board Approval			04/28/09

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.

Business (AABAS)
Computer Science Transfer (ASCSCT)
Criminal Justice (AACJ)
Digital Video Production (AADVP)
Educaton, Elementary (AAELEM)
Education, Secondary (AASECO)
Exercise Science (ASESCI)
General Studies in Math and Natural Sciences (ASGSMS)
Human Services (AAHUST)
Information Systems Transfer (ASIST)
Internet Professional (AAINP)
Liberal Arts Transfer (AALAT)

- Math and Science (ASMSAS) 1. Pre-Medicine Concentration (BMED) or (CMED)
 - 2. Computer Science Concentration (COMS)
 - 3. Mathematics Concentration (MATH)
 - 4. Physics/Pre-Engineering Concentration (PHYS)

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.

Math and Science

Learn more about Math or Science through this associate degree program.

General Studies in Math and Natural Sciences (ASGSMS) Associate in Science Degree

Program Effective Term:

This program allows students to design a program of study to meet their individual needs. This may be a good option if students are undecided about a major and want to explore a variety of discipline areas with a concentration in math and natural sciences. The program also allows students to customize their coursework to the requirements of the senior college or university to which they are transferring. Students should begin by meeting with a counselor who will assist them in developing a program of study that meets all of the College's graduation requirements. A counselor can also help students determine their interests and career and educational goals as well as provide transfer and career information.

General Studies Program Requirements

róü eredits:

30-31

1. Complete the General Education Requirements for the Associate in Science degree. Transfer students are encouraged to complete the MACRAO requirements.

General Education Requirements: Composition I ENG 111 **ENG 226** Composition II

Speech Elective(s) 3 Math 191 or higher Elective(s) Nat. Sci. Elective(s)* 3-4 Soc. Sci. Elective(s)** 6 Arts/Human. Elective(s) 6

2. Complete a concentration in math or science

15 credit hours from up to two disciplines chosen from Biology, Chemistry, Math or Physics (A minimum of 6 credits at the 200 level is strongly recommended).

Students transferring to EMU should select from the following WCC courses: BIO 103, BIO 208, BIO 215, BIO 227, BIO 228; CEM 111, CEM 122, CEM 211, CEM 222; MTH 191, MTH 192, MTH 197, MTH 293, MTH 295; PHY 111, PHY 122, PHY 211, PHY 222

or see an advisor to select courses that will meet the requirements of the college to which you are transferring.

3. Complete a second concentration. Select 9 credits from up to two disciplines listed below (A minimum of 3 credits at the 200 level is strongly recommended).

Select from Anthropology, Art, Astronomy, Biology, Chemistry, Communication, Criminal Justice, Dance, Drama, Economics, English, French, Health Science, History, Math, Music, Philosophy, Physics, Political Science, Psychology, Sociology or Spanish

4. Electives to complete a minimum of 60 credit hours

60

9

15

Minimum Credits Required for the Program:

*Transfer students should select a lab-based, MACRAO-approved science course. See WCC catalog for eligible courses.

**Transfer students attempting to satisfy MACRAO should complete an additional 2-3 credit hours in Social Science courses.

Courses used to meet General Education Requirements cannot be counted toward the minimum credits for the concentrations.

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