

Instructional Program Review 2016/17 UPDATE

Geography

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General Information (Instructional Program Review 2016/17 UPDATE)

2016/17 Instructional Program Review UPDATE

PROGRAM REVIEW DATA AND RESOURCES

File Attachments:

1. **FHP_Report_GEOG.pdf** (See appendix)
2. **GEOG_Annual_Student_Outcomes_2016.pdf** (See appendix)
3. **GEOG_Student_Characteristics.pdf** (See appendix)

Participants (REQUIRED)

Lead Writers: Waverly Ray, Ken Berger

Liaison: Pegah Motaleb

Department Chair: John Crocitti

Manager/Service Area Supervisor: Charlie Zappia

Updates (REQUIRED)

In terms of faculty, the geography program has two full-time faculty members, one pro rata faculty member who teaches in the Fall semester, and four adjunct faculty members. There is an ongoing challenge to find physical geography lecture and laboratory instructors particularly in the Spring semesters. For instance, only one of the two newly hired adjunct faculty members who taught in Spring 2016 will return to teach in Spring 2017. Looking ahead, the tenured geography faculty member is planning to teach only in the Spring semesters as he transitions into a fifty percent reduced load early retirement beginning in the 2017-2018 academic year.

Additionally, one of our long-time adjunct faculty members earned her doctorate.

Due to low enrollment, an evening physical geography class was cancelled in Fall 2016. The evening classes continue to have lower enrollments and the program is developing its capacity to teach fully online and hybrid courses. One instructor completed the District's online certification course and one adjunct instructor is currently taking the course. The program is offering its first online course—world regional geography—in Fall 2016. World regional geography and cultural geography are scheduled to be offered online in Spring 2017.

In collaboration with the geographer at City College, the program is in the process of submitting the six-year review of the physical geography (GEOG 101) course outline of record.

There have been no changes to the geography program's mission, vision, description, or degrees offered. The program does not have an advisory group and the labor market for geographers remains consistent.

Outcomes and Assessment (REQUIRED)

Form: Outcomes and Assessment 2016/17 - Instructional Questions (See appendix)

IE Data Analysis (REQUIRED)

Form: Instructional Data Analysis - Program Review 2016/17 (See appendix)

File Attachments:

1. **Figure 1. Geography Student Enrollments by Ethnicity.png** (See appendix)
2. **Figure 2. Geography Student Enrollments by Ethnicity and Year.png** (See appendix)

Program Goals

Geography Program Goal Set 2014-2015

Goal

Goal

Introduce computer based lab exercises
Since the geography program now has a dedicated laboratory with computers, computer-based lab exercises need to be incorporated into GEOG 101L

Mentor new geography contract faculty
After many years, the geography program finally has a second full-time faculty member. This individual needs to be "brought up to speed" ASAP with respect to the running of the geography program.

Conduct regular Geography Program meetings
To discuss student success and equity among other topics.

Enhance the professional development opportunities for geography faculty members
This goal developed from the analysis of the student success and equity data.

Mapping

Geography Outcome Set: Technological Awareness

CA- Mesa College Strategic Directions and Goals:
Strategic Goal 1.1, Strategic Goal 1.2, Strategic Goal 1.3, Strategic Goal 1.4, Strategic Goal 1.5, Strategic Goal 1.6, Strategic Goal 2.1, Strategic Goal 2.2, Strategic Goal 2.3, Strategic Goal 2.4, Strategic Goal 2.5, Strategic Goal 3.1, Strategic Goal 3.2, Strategic Goal 3.3, Strategic Goal 4.1, Strategic Goal 4.2, Strategic Goal 4.3, Strategic Goal 4.4, Strategic Goal 5.1, Strategic Goal 5.2, Strategic Goal 6.1, Strategic Goal 6.2, Strategic Goal 6.3

CA- Mesa College Strategic Directions and Goals:
Strategic Goal 1.1, Strategic Goal 1.2, Strategic Goal 1.3, Strategic Goal 1.4, Strategic Goal 1.5, Strategic Goal 2.1, Strategic Goal 4.1, Strategic Goal 4.2, Strategic Goal 5.1, Strategic Goal 5.2, Strategic Goal 6.2,
Geography Outcome Set: Communication, Critical Thinking, Global Awareness, Personal Actions and Civic Responsibilities, Technological Awareness

CA- Mesa College Strategic Directions and Goals:
Strategic Goal 1.1, Strategic Goal 1.3, Strategic Goal 1.4, Strategic Goal 1.5, Strategic Goal 1.6, Strategic Goal 2.3, Strategic Goal 3.1, Strategic Goal 4.1, Strategic Goal 4.2, Strategic Goal 5.1, Strategic Goal 5.2

Objectives and Plans

Actions

Geography Program Goal Set 2014-2015

Goal

Introduce computer based lab exercises

Since the geography program now has a dedicated laboratory with computers, computer-based lab exercises need to be incorporated into GEOG 101L

▼ Action: Introduce computer-based lab exercises

Describe the actions needed to achieve this objective : Geography finally has a dedicated computer lab with computer work stations. To fully utilize these computers, computer-based lab exercises need to be developed.

Who will be responsible for overseeing the completion of this objective: geography laboratory instructors

Provide a timeline for the actions: Fall 2014 through Spring 2018

Describe the assessment plan you will use to know if the objective was achieved and effective: The utilization of computer-based lab exercises in GEOG 101L

List resources needed achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other): n/a

Mentor new geography contract faculty

After many years, the geography program finally has a second full-time faculty member. This individual needs to be "brought up to speed" ASAP with respect to the running of the geography program.

▼ Action: Mentor new geography contract faculty

Describe the actions needed to achieve this objective : After many years, the geography program finally has a second full-time faculty member. This new faculty member needs to be "brought up to speed" in all that is required in running the geography program.

Who will be responsible for overseeing the completion of this objective: The senior geography faculty member along with the departmental chair.

Provide a timeline for the actions: This is a continuing on-going process. It is hoped that each year the new faculty member will become more familiar with the department and will begin to share the responsibility for running it with the ultimate goal of being the senior faculty member when, in the not too distant future, the present emeritus faculty is no longer pro rata & the present senior faculty member has phased in a reduced teaching load.

Describe the assessment plan you will use to know if the objective was achieved and effective: If the new faculty member is able to accomplish various tasks, such as:
faculty evaluations,
program review,
curriculum updates,
new course development,
serving on committees,
etc.

List resources needed achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other): n/a

Conduct regular Geography Program meetings

To discuss student success and equity among other topics.

▼ Action: Conduct regular Geography Program meetings

Describe the actions needed to achieve this objective : 1. Determine availability of faculty members and submit a workshop proposal for a January Flex week Geography program meeting.
2. Create an agenda for the Flex week meeting.
3. Identify if there are other dates and times in the Spring 2016 semester to meet and submit workshop proposals for those dates if faculty members are available. The agenda for subsequent meetings will be determined based on input from geography faculty members.
4. If the Spring 2016 meeting(s) is/are successful (as determined by the assessment plan), then determine the availability of faculty members and submit a workshop proposal for an August Flex

week Geography program meeting. And, identify other dates and times in the Fall 2016 semester to meet and submit workshop proposals for those dates.

Who will be responsible for overseeing the completion of this objective: Waverly Ray

Provide a timeline for the actions: Before the end of the Fall 2015 semester, schedule the January Flex meeting. Initial meeting will be held during the January Flex week. Subsequent meetings will be held.

Describe the assessment plan you will use to know if the objective was achieved and effective: Achievement of objective will be determined based on whether or not a meeting is held. Effectiveness of the meetings will be determined by whether or not the meeting agenda items were accomplished.

List resources needed achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other): Facilities: room location. Supplies: refreshments. Faculty to attend the meeting.

Enhance the professional development opportunities for geography faculty members.

This goal developed from the analysis of the student success and equity data.

▼ Action: Professional development planning and implementation

Describe the actions needed to achieve this objective : 1. Identify professional development activities relevant to geography faculty members.
2. Schedule professional development activities at times convenient for geography faculty members.
3. Network with colleagues in related disciplines to increase the types of professional development activities offered.

Who will be responsible for overseeing the completion of this objective: Waverly Ray

Provide a timeline for the actions: Spring 2016 1. Contact colleagues to determine what types of professional development activities are desired. 2. Draft professional development workshop proposals. 3. Apply for funding for workshops. 4. Promote the workshops. Fall 2017 (pending funding) 5. Host and assess the impact of the workshops.

Describe the assessment plan you will use to know if the objective was achieved and effective: Qualitative and quantitative feedback from workshop participants will be collected and subsequent student success rate data will be analyzed.

List resources needed achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other): 1. Supplies: Printed materials for workshops.
2. Travel & Conference: Funding to attend externally-hosted conferences.
3. Facilities: Locations to host workshops on campus.
4. Funding: Geology Professor Donald Barrie and Geography Professor Waverly Ray have identified a workshop offered from the National Association of Geoscience Teachers that both programs could co-host. Dependent on funding availability, they would like to offer a one-day workshop on active learning during the Fall 2017 Flex week. The cost of this workshop will be \$4,030 (approximately \$134 per person for a 30 person workshop), which will be shared between the two programs.

📁 Goals Status Report (REQUIRED)

Action Statuses

Geography Program Goal Set 2014-2015

Goal

Introduce computer based lab exercises

▼ Action: Introduce computer-based lab exercises

Since the geography program now has a dedicated laboratory with computers, computer-based lab exercises need to be incorporated into GEOG 101L

Describe the actions needed to achieve this objective : Geography finally has a dedicated computer lab with computer work stations. To fully utilize these computers, computer-based lab exercises need to be developed.

Who will be responsible for overseeing the completion of this objective: geography laboratory instructors

Provide a timeline for the actions: Fall 2014 through Spring 2018

Describe the assessment plan you will use to know if the objective was achieved and effective: The utilization of computer-based lab exercises in GEOG 101L

List resources needed achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other): n/a

Status for Introduce computer-based lab exercises

Current Status: In Progress

If the Current Status was marked Completed, what was the impact of the completed objective on your program:

If the Current Status was not marked Completed, what are the implications and next steps: At the Fall 2016 geography program meeting, two of the three physical geography laboratory instructors reported using the computers in 25-33% of the exercises. The instructor who did not report using the computers will not return to teach the geography laboratory in Spring 2017. In addition to the two returning geography laboratory instructors, three additional adjunct instructors will teach the geography lab in Spring 2017.

Given the geography laboratory instructor turnover and the time it takes to create laboratory exercises, we have extended this goal through the next two academic years.

Mentor new geography contract faculty

After many years, the geography program finally has a second full-time faculty member. This individual needs to be "brought up to speed" ASAP with respect to the running of the geography program.

▼ Action: Mentor new geography contract faculty

Describe the actions needed to achieve this objective : After many years, the geography program finally has a second full-time faculty member. This new faculty member needs to be "brought up to speed" in all that is required in running the geography program.

Who will be responsible for overseeing the completion of this objective: The senior geography faculty member along with the departmental chair.

Provide a timeline for the actions: This is a continuing on-going process. It is hoped that each year the new faculty member will become more familiar with the department and will begin to share the responsibility for running it with the ultimate goal of being the senior faculty member when, in the not too distant future, the present emeritus faculty is no longer pro rata & the present senior faculty member has phased in a reduced teaching load.

Describe the assessment plan you will use to know if the objective was achieved and effective: If the new faculty member is able to accomplish various tasks, such as:

faculty evaluations,
program review,
curriculum updates,
new course development,
serving on committees,
etc.

List resources needed achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other): n/a

Status for Mentor new geography contract faculty

Current Status: In Progress

If the Current Status was marked Completed, what was the impact of the completed objective on your program:

If the Current Status was not marked Completed, what are the implications and next steps: The untenured geography faculty member has: completed three adjunct evaluations, served as co-lead writer for the geography program review since Fall 2015, submitted two six-year review curriculum updates, and serves on five committees.

She will continue to seek mentoring from the tenured geographer and the social sciences department chair.

Conduct regular Geography Program meetings

To discuss student success and equity among other topics.

▼ Action: Conduct regular Geography Program meetings

Describe the actions needed to achieve this objective : 1. Determine availability of faculty members and submit a workshop proposal for a January Flex week Geography program meeting. 2. Create an agenda for the Flex week meeting. 3. Identify if there are other dates and times in the Spring 2016 semester to meet and submit workshop proposals for those dates if faculty members are available. The agenda for subsequent meetings will be determined based on input from geography faculty members. 4. If the Spring 2016 meeting(s) is/are successful (as determined by the assessment plan), then determine the availability of faculty members and submit a workshop proposal for an August Flex week Geography program meeting. And, identify other dates and times in the Fall 2016 semester to meet and submit workshop proposals for those dates.

Who will be responsible for overseeing the completion of this objective: Waverly Ray

Provide a timeline for the actions: Before the end of the Fall 2015 semester, schedule the January Flex meeting. Initial meeting will be held during the January Flex week. Subsequent meetings will be held.

Describe the assessment plan you will use to know if the objective was achieved and effective: Achievement of objective will be determined based on whether or not a meeting is held. Effectiveness of the meetings will be determined by whether or not the meeting agenda items were accomplished.

List resources needed achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other): Facilities: room location. Supplies: refreshments. Faculty to attend the meeting.

Status for Conduct regular Geography Program meetings

Current Status: In Progress

If the Current Status was marked Completed, what was the impact of the completed objective on your program:

If the Current Status was not marked Completed, what are the implications and next steps: We will continue to schedule regular geography program meetings to discuss student success and equity, among other topics. The meetings have provided an important venue for communicating about student success, the geography program review, teaching concerns, and the physical geography laboratory inventory.

Enhance the professional development opportunities for geography faculty members.

This goal developed from the analysis of the student success and equity data.

▼ **Action: Professional development planning and implementation**

Describe the actions needed to achieve this objective : 1. Identify professional development activities relevant to geography faculty members.
2. Schedule professional development activities at times convenient for geography faculty members.
3. Network with colleagues in related disciplines to increase the types of professional development activities offered.

Who will be responsible for overseeing the completion of this objective: Waverly Ray

Provide a timeline for the actions: Spring 2016 1. Contact colleagues to determine what types of professional development activities are desired. 2. Draft professional development workshop proposals. 3. Apply for funding for workshops. 4. Promote the workshops. Fall 2017 (pending funding) 5. Host and assess the impact of the workshops.

Describe the assessment plan you will use to know if the objective was achieved and effective: Qualitative and quantitative feedback from workshop participants will be collected and subsequent student success rate data will be analyzed.

List resources needed achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other): 1. Supplies: Printed materials for workshops.
2. Travel & Conference: Funding to attend externally-hosted conferences.
3. Facilities: Locations to host workshops on campus.
4. Funding: Geology Professor Donald Barrie and Geography Professor Waverly Ray have identified a workshop offered from the National Association of Geoscience Teachers that both programs could co-host. Dependent on funding availability, they would like to offer a one-day workshop on active learning during the Fall 2017 Flex week. The cost of this workshop will be \$4,030 (approximately \$134 per person for a 30 person workshop), which will be shared between the two programs.

Status for Professional development planning and implementation

Current Status: In Progress

If the Current Status was marked Completed, what was the impact of the completed objective on your program:

If the Current Status was not marked Completed, what are the implications and next steps: This is a new goal for Fall 2016. The next steps are to follow the timeline of actions.

📅 **Closing the loop on prior year resource allocations (REQUIRED)**

The geography program received funding to purchase a 26" extreme raised relief globe for the physical geography laboratory. It displays ocean and land topography at exaggerated scales in order to make relief changes more apparent to students. Many novice geography students struggle with interpreting two-dimensional representations of the Earth's surface and this raised-relief globe helps students understand physical geography features. Tactile learners are especially drawn to this globe because one can touch the physical features of the Earth. Research has shown that tactile maps and globes assist students with vision impairments, as well. The request aligned with Strategic Goal 1.3 (Provide instruction in support of the needs of the College's diverse student population) and 4.1 (Support new teaching strategies, applied learning experiences, and engagement techniques in support of student-centered learning). For the former Strategic Goal, three-dimensional globes are especially helpful for some DSPS students. For the latter Strategic Goal, large three-dimensional globes allow students to actively engage with seafloor topography and landforms.

The globe was delivered in early summer 2016 so its impact on learning outcomes is as of yet unknown. Physical geography laboratory instructors have confirmed using the globe for demonstrations of mountain ranges, mid-oceanic ridges, and plate tectonics.

Request Forms

BARC & Facilities Requests

File Attachments:

1. **BARC_Template_16-17_GEOGWorkshopRequest.xlsx** (See appendix)

Classified Staff Requests

Faculty Position Request 1

Faculty Position Request 2

Faculty Position Request 3