Curriculum Course Request WES Change Course GPS 1500 - A-2018-PAPR-111; effective term: 202040

Kecheng Li
Fri 11/30/2018 2:51 PM

To: Raja G Aravamuthan <raja.aravamuthan@wmich.edu>; Said M Abubakr <said.abubakr@wmich.edu>
Cc: Holly Blanks <holly.blanks@wmich.edu>

8 2 attachments (39 KB)
1500SyllabusS2018.docx; GPS 1500 SLOs for Level II Societies and Culture.docx

Please verify your data for New Curriculum Course Request for department: PAPR; college: A.
Go to the following URL to complete your request list items: https://bwfg1.cc.wmich.edu:7102/wfbprod

Date of request: 19-NOV-2018
Request ID: A-2018-PAPR-111

College: A

Department: PAPR

Initiator name: Said Abubakr
Initiator email: said.abubakr@wmich.edu

Proposed effective term: 202040

Does course need General Education approval?: Y

Will course be used in teacher education?: N

If 5000 level course, prerequisites apply to: U

Proposed course data:
WES Change Course GPS 1500
Specific Course Change type selected: WMU Essential Studies - Level 2: Exploration and Discovery

1. Existing course prefix and number:
GPS 1500

2. Level 2: Exploration and Discovery
   Indicate which course category the course should be placed in:
   Science and Technology

3. Indicate which ONE additional required student learning outcome the course will assess: (may NOT select category required
https://outlook.office.com/owa/?realm=WMICH.EDU&exsvurl=1&ll-cc=1033&modurl=0&path=/mail/search

1/4
scheduling needs and demands on students’ time. If a required course will be offered during summer only, provide a rationale. Initial WMU Essential Studies review and approval

K. Student or external market demand. What is your anticipated student audience? What evidence of student or market demand or need exists? What is the estimated enrollment? What other factors make your proposal beneficial to students? Initial WMU Essential Studies review and approval

L. Effects on resources. Explain how your proposal would affect department and University resources, including faculty, equipment, space, technology, and library holdings. Tell how you will staff additions to the program. If more advising will be needed, how will you provide for it? How often will course(s) be offered? What will be the initial one-time costs and the ongoing base-funding costs for the proposed program? (Attach additional pages, as necessary.)

5 sections offered every semester with a capacity of 40 students per section. The course taught by the same one instructor; therefore assessment is the same in all sections. not offered on line

M. With the change from General Education to WMU Essential Studies, this question is no longer used.

For courses requesting approval as a WMU Essential Studies course, a syllabus identifying the student learning outcomes and an action plan for assessing the student learning outcomes must be attached in the Banner Workflow system.

Not Applicable

N. (Undergraduate proposals only) Describe, in detail, how this curriculum change affects transfer articulation for Michigan community colleges. For course changes, include detail on necessary changes to transfer articulation from Michigan community college courses. For new majors or minors, describe transfer guidelines to be developed with Michigan community colleges. For revisions to majors or minors, describe necessary revisions to Michigan community college guidelines. Department chairs should seek assistance from college advising directors or from the admissions office in completing this section.

No effects

O. Current catalog copy:
Catalog description: An introductory lecture-laboratory course describing the printing industry. Pre-press, Copy preparation, Photo imaging by mechanical and desktop digital systems, Proofing, Presswork and Bindery are components. There will be a comparison of all printing/imaging methods. Relief, Flexography, Gravure, Screen, Lithography and Digital print will be introduced.

P. Proposed catalog copy:
Catalog description: An introductory lecture-laboratory course describing the printing industry. Pre-press, Copy preparation, Photo imaging by mechanical and desktop digital systems, Proofing, Presswork and Bindery are components. There will be a comparison of all printing/imaging methods. Relief, Flexography, Gravure, Screen, Lithography and Digital print will be introduced. This course meets the student learning outcomes in the WMU Essential Studies Level 2- Exploration and Discovery Science and Technology Course Category. This course also meets the Planetary Sustainability student learning outcome. (4 credits)

Department Curriculum Chair approver: Said Abubakr

Department Curriculum Chair comment:

Date: 30-NOV-2018

Department approver: Kecheng Li

Chair comment:
Western Michigan University
Department of
Chemical and Paper Engineering

GRAPHIC & PRINTING SCIENCE
GPS1500 Introduction to Graphic & Printing Science
Lecture: 1720 Chemistry Bldg, Main Campus T & R 9:30-10:45 a.m.
Laboratory: C220 & C111 Floyd Hall, Parkview Campus
Tuesday 2:30 - 5:20 & 6:30- 9:20 p.m.
Thursday 2:30 - 5:20 & 6:30 - 9:20 p.m.

This course meets the student learning outcomes in the WMU Essential Studies Level 2-
Exploration and Discovery Science and Technology Course Category. This course also
meets the Planetary Sustainability student learning outcome. (4 credits)

Lois Lemon, M.A. A232 Floyd Hall Parkview, lois.lemon@wmich.edu 269 276-3517
Office hours: after lecture & by appointment in A232 Floyd Hall

Text: Required  Adams, J. and Dolin, P. 2002 Printing Technology 5E
(Available at bookstore or online)

Supplemental Materials to be provided by student: (You must have these items and bring to
lab) Personal Flash Drive, pen or pencil, notebook.

Catalog description: An introductory lecture-laboratory course describing the printing industry.
Pre-press, Copy preparation, Photo imaging and Desktop Digital systems, Proofing, Presswork
and Bindery are components. There will be a comparison of all printing/imaging methods.
Relief (Flexography), Gravure, Screen, Lithography and Digital print will be introduced.
No prerequisites or co-requisites required.
Required course in GPS program, otherwise elective. Offered in Fall and Spring

Objectives:
A. To provide the student with related and technical information essential to an
understanding of the print/imaging processes.
B. To introduce the student to the tools, materials, equipment, terminology and processes
in the five common methods of print and imaging.
C. To provide an opportunity to develop skills and techniques (teamwork) basic to the
Graphic and Print industry.
D. To develop in the student an appreciation for fine craftsmanship.
E. To develop in the student proper work habits and safety consciousness. (You will be
working with commercially available printing solutions and inks that may contain
solvents or other chemicals that could cause adverse health effects. Should you have
concerns, please speak to the instructor. Material Safety Data Sheets are available
online at www.esem.wmich.edu/mds.htm

Course Learning Outcomes:
1. Students will be able to state the five common printing methods, their alternate names
and how they are used in industry.
2. Students will demonstrate the ability to use safe work habits in a print shop atmosphere
and develop practices for planetary sustainability (WMU Essential Studies SLO)
3. Students will be able to effectively operate printing equipment. (i.e. duplicators, cutter,
drill, processors, bindery equipment etc.) and understand the science behind it
4. Students will design print advertisement and produce a print job from the small
duplicators.
# Western Essential Education

## Exploration and Discovery

### For GPS 1500

<table>
<thead>
<tr>
<th>WMU Essential Studies Student Learning Outcome</th>
<th>Assignments and/or Learning Activities that meet the criteria within the rubric that is aligned with the SLO</th>
<th>When the SLO assessment will take place</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>X</strong> Student will increase functional knowledge of the sciences</td>
<td>Compose a series of correctly formatted and clearly written letters, memorandums, and proposals. Identify a specific technical job and write an appropriate cover letter and résumé that reflect current practices. Research an approved topic related to major, identify appropriate sources, and write a selected review or literature following APA guidelines for documentation.</td>
<td>By end of second quarter By end of semester</td>
</tr>
<tr>
<td><strong>X</strong> Develop practices for planetary sustainability</td>
<td>Student need to identify three poorly designed printed paper, analyze the flaws, and recyclability of ink and paper. Student will work safely in the lab.</td>
<td>By end of the semester By end of the semester</td>
</tr>
<tr>
<td></td>
<td>Students will be able to effectively operate printing equipment and understand the science behind it</td>
<td>By end of the semester</td>
</tr>
<tr>
<td>Student will Demonstrate effective and appropriate oral and digital communication abilities</td>
<td></td>
<td></td>
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</tbody>
</table>