University Studies Cluster Proposal Cover Sheet
For Academic Year 2009-2010

Cluster Proposed for: Freedom, Privacy, and Technology

Title of course: Science of Women's Bodies

Course Number: SCI 365U

Proposing Faculty: Janice Montgomery

Cluster Coordinator: Ann Mussey

Proposal Type:
X Cluster Course to New Cluster
___ New Course to Cluster
___ Removal

Other clusters this course is assigned to:

Proposals are due to the University Studies office (CH 117) with 12 duplicate copies by Friday, November 9, 2007 so that they may be reviewed and forwarded to the UCC Committee for final approval.

ORIGINAL
University Studies Cluster Course Addition Adding an already approved “U” course to another cluster
(When addressing questions, please attach a separate sheet)

1. COURSE TITLE AND NUMBER:

PROPOSING FACULTY (Name, signature, and department):

TO WHAT CLUSTER ARE YOU PROPOSING ADDING THIS “U” COURSE?

FOR WHAT OTHER CLUSTER(S) HAS THIS COURSE ALREADY BEEN APPROVED?

1. AVAILABILITY: With what regularity has the course been—or will the course be—offered?

2. GENERAL EDUCATION GOALS: SUITABILITY & CLUSTER INTEGRITY Discuss the place of this particular course within the cluster to which you wish to add it, indicating how adding the proposed course will contribute to, while also sustaining, the thematic integrity of the cluster.

OBTAIN CHAIR AND CLUSTER COORDINATOR SIGNATURES BEFORE SUBMITTING

DEPARTMENT CHAIR(S):

DATE: ___________________ DATE: 3-26-08

CLUSTER COORDINATOR

DATE: 4-1-08

THE ORIGINAL + 12 COPIES OF THE PROPOSAL MUST BE RECEIVED AT UNIVERSITY STUDIES (CH 117) BY NOVEMBER 9, 2007

PROPOSING FACULTY

COURSE NUMBER AND TITLE  SC1 365U / WS 365U Science of Women's Bodies
COURSE APPROVED FOR CLUSTER INCLUSION

All changes to Clusters must be approved by PSU’s Senate Curriculum Committee.

CHAIR UNST COMMITTEE: ____________________________
DATE: 12/10/108

DATE: ____________________________
CHAIR, CLUSTER COORDINATOR: ____________________________
DATE: 5/17/08

12/11/08
OBTAIN CHAIR AND CLUSTER COORDINATOR SIGNATURES BEFORE SUBMITTING

DEPARTMENT CHAIR(S): [Signature]

DATE: ________________ DATE: 3-26-08

CLUSTER COORDINATOR [Signature]

DATE: 4-1-08

THE ORIGINAL + 12 COPIES OF THE PROPOSAL MUST BE RECEIVED AT UNIVERSITY STUDIES (CH 117) BY NOVEMBER 9, 2007

PROPOSING FACULTY [Signature]

COURSE NUMBER AND TITLE: SCI 365U / WOS 365U SCIENCE OF WOMEN'S BODIES

COURSE APPROVED FOR CLUSTER INCLUSION
All changes to Clusters must be approved by PSU's Senate Curriculum Committee.

CHAIR UNST COMMITTEE: 

DATE: ________________ DATE: ________________

CHAIR, CLUSTER COORDINATOR: 

DATE: ________________
University Studies Cluster Course Addition Adding an already approved “U” course to another cluster
(When addressing questions, please attach a separate sheet)

1. COURSE TITLE AND NUMBER: SCI365U/WS365U Science of Women’s Bodies
(Also listed as SCI399U under the SLA cluster)

PROPOSING FACULTY (Name, signature, and department): Janice Montgomery,
Environmental Science and Resources.

TO WHAT CLUSTER ARE YOU PROPOSING ADDING THIS “U” COURSE?
Freedom, Privacy and Technology

FOR WHAT OTHER CLUSTER(S) HAS THIS COURSE ALREADY BEEN
APPROVED? Women’s Studies and Science in the Liberal Arts.

1. AVAILABILITY: With what regularity has the course been—or will the course be—offered? Winter and Spring terms and Summer Session

2. GENERAL EDUCATION GOALS: SUITABILITY & CLUSTER INTEGRITY
Discuss the place of this particular course within the cluster to which you wish to add it, indicating how adding the proposed course will contribute to, while also sustaining, the thematic integrity of the cluster.

The Science of Women’s Bodies course supports the general communications, critical thinking, ethics/social responsibility and diversity/human experience goals of the Freedom, Privacy and Technology cluster by looking more closely at issues introduced at the sophomore level through group project presentations, individual research projects, lecture, and classroom discussion and explicitly responds to specific Freedom, Privacy and Technology cluster goals related to evaluating the extent to which genetic research and bio/medical technology impact our values, responsibilities, privacy and free choice in how genetic information and technologies are used. This course brings together the study of basic science disciplines with humanistic and social science using the female body as the focus point and provides an opportunity for students to apply basic science knowledge as they explore technology related controversial issues such as genetic engineering, assisted reproductive technology, pre-implantation genetic diagnosis and cloning. The human female body is studied from a multidisciplinary perspective that provides the basic science foundation in genetics and human reproduction needed to better understand and thoughtfully question the motives and appropriate use of these rapidly advancing technologies.
SCI 365U (CRN 63237) WS 356U (CRN 64307) Science of Women’s Bodies
Instructor: Janice Montgomery, MS  Time Schedule: M/W 1300-1450 CH 287
Office hours: Mon/Wed before/after class in classroom (CH 287) and by appointment (SB2).
Office: SB2 208  
Messages: jmontgom@pdx.edu

COURSE DESCRIPTION
The female human body is studied from a multidisciplinary perspective including anatomy, physiology,
genetics, cell biology, endocrinology and human development, as well as biochemistry. Current social,
cultural and political topics related to the science and policy of women’s health are also discussed.

GENERAL OBJECTIVE
Students will gain an introductory level understanding of basic science content in a variety of disciplines
using the female body as a focus point and have an opportunity to apply that knowledge as they explore
related controversial issues.

SPECIFIC OBJECTIVES
Students successfully completing this course will:
1. Be able to identify the biochemical origins of hormones and other chemical messengers and their
physiological actions in the body.
2. Be able to locate the major endocrine glands and identify the hormones they secrete during the
different stages of the normal female life cycle.
3. Be able to describe the process of cell division as it applies to gamete production.
4. Be familiar with the role of sex chromosomes in determining gender and the expression of genetic
abnormalities related to gender.
5. Have a basic understanding of the development of the female reproductive system and the anatomy
and physiology of the ovaries, uterus and breast as related to both normal and abnormal conditions.
6. Have an understanding of the impact of changing hormone levels on normal body functioning and the
pharmacological manipulation of hormones in the treatment of infertility and precocious puberty.
7. Have experience using science knowledge in evaluating and understanding controversial women’s
health issues.

COURSE MATERIALS
2. On RESERVE – PSU library for this course:

EVALUATION
1. FINAL GRADE: The total points earned during the course will be converted to a percentage score and
final grades will be assigned based on a modified standard curve
   80  Class attendance and participation (points: 4/whole class, 2/half class)
   140 Weekly exams (20 points each) 7 highest scores out of the 9 exams given
   100  Group project
   100  Individual project
   420  Total points

2. ATTENDANCE POINTS: When a student misses class due to illness or family emergency, an email
    jmottgom@pdx.edu from the student is required for an excused absence so that attendance
    points are not lost. It is the responsibility of the student to notify the instructor as soon as possible.
    Written documentation must be provided for more than three excused absences.

3. WEEKLY EXAMS: Exams are given at the beginning of class (the first 20 minutes), every MONDAY,
   except 5/28 Holiday. See Schedule. Questions are objective in nature (short answer, fill-in, true/false,
   multiple choice) and cover only the material presented in class since the last exam. Exam 9 will be
   given Finals Week. The TWO lowest exam scores will be dropped. NO MAKE-UP EXAMS.

4. GROUP/INDIVIDUAL PROJECTS: Written guidelines will be provided and reviewed in class. Project
   presentation dates are given in the course schedule. Deadlines for handouts are given in the
   Group/Individual Project Guidelines. Points will be taken off for late work unless arrangements
   have been made with the instructor. Group members will be expected to present their project,
   on time, as scheduled, even in the event that a group member is absent.

EXPECTATIONS FOR CLASSROOM ENVIRONMENT
1. Please turn OFF cell phones.
2. Please respect the sensitive nature of the course material in all classroom communications.
3. Due to the sensitive nature of course material, please do not bring children to class unless
   arrangements have been made with the instructor ahead of time.
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Monday Topics</th>
<th>Assignment</th>
<th>Wednesday Topics</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>31 Mar</td>
<td>Course overview, Hormone Basics, Endocrine Glands.</td>
<td>Read CH 10 before Wednesday.</td>
<td>CH 10 &quot;A Brief History of Hormones&quot;/Review Group/Individual Project</td>
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<td>Assignment: Read assigned Group Project chapter before next Monday and complete the FRONT SIDE of Group Project Worksheet.</td>
<td>Assignment: Read CH 10 before next Wednesday.</td>
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<tr>
<td>2</td>
<td>7 Apr</td>
<td>CH 10 &quot;A Brief History of Hormones&quot; (continued)</td>
<td>DUE: (beginning of class) FRONT SIDE of Group Project Worksheet.</td>
<td>CH 10 &quot;A Brief History of Hormones&quot;/Review for Exam 1</td>
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<td>Groups will meet in the classroom the 2nd hour to complete the BACK SIDE of the Group Project Worksheet and review chapter topics with instructor.</td>
<td>Assignments: Read CH 1 before next Wednesday.</td>
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<td>3</td>
<td>14 Apr</td>
<td>Precocious puberty: cause, diagnosis, treatment issues.</td>
<td>REMINDER: email CH 1 Group class handouts.</td>
<td>CH 1 Group Project presentation</td>
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<td>(Wed) Topics: Oocyte, oogenesis, egg donor protocol.</td>
<td>REMINDER: email CH 2 Group class handouts.</td>
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<td>CH 1 Group Project presentation</td>
<td>Assignments: Read CH 2 before next Monday.</td>
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<td>4</td>
<td>21 Apr</td>
<td>Sex chromosomes, fetal development of reproductive system, Androgen Insensitivity Syndrome.</td>
<td>Exam 2</td>
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<td>CH 2 Group Project presentation</td>
<td>CH 2 Group Project presentation</td>
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<td>REMINDER: email CH 1 and CH 2 Individual class handouts.</td>
<td>REMINDER: email CH 1 and CH 2 Individual class handouts.</td>
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<td>(Wed) CH 1 and CH 2 Individual Project presentations</td>
<td>Assignments: Read CH 5/6 before next Monday.</td>
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<td>5</td>
<td>28 Apr</td>
<td>Uterine cycle, fibroids, hysterectomy</td>
<td>Exam 3</td>
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<td>CH 5/6 Group Project presentation</td>
<td>CH 5/6 Group Project presentation</td>
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<td>Assignments: Read CH 5/6 before next Monday.</td>
<td>Assignments: Read CH 5/6 before next Monday.</td>
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<td>6</td>
<td>4 May</td>
<td>Breast anatomy, physiology, lactation, breast milk</td>
<td>Exam 4</td>
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<td>CH 7/8 Group Project presentation</td>
<td>CH 7/8 Individual Project presentations</td>
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<td>REMINDER: email CH 7/8 Group/Individual class handouts.</td>
<td>REMINDER: email CH 7/8 Group/Individual class handouts.</td>
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<td>Assignments: Read CH 7/8 before next Monday.</td>
<td>Assignments: Read CH 7/8 before next Monday.</td>
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<td>7</td>
<td>12 May</td>
<td>Ovarian cycle, puberty, menstrual synchrony.</td>
<td>Exam 5</td>
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<td>CH 9 Group Project presentation</td>
<td>CH 9 Group Project presentation</td>
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<td>(Wed) CH 9 Individual Project presentations</td>
<td>REMINDER: email CH 9 Group/Individual class handouts.</td>
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<td>Assignment: Read CH 9 before next Monday.</td>
<td>Assignments: Read CH 9 before next Monday.</td>
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<td>8</td>
<td>19 May</td>
<td>Menopause</td>
<td>Exam 6</td>
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<td>CH 12/13 Group Project presentation</td>
<td>CH 12/13 Group Project presentation</td>
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<td>(Wed) CH 12/13 Individual Project presentations</td>
<td>REMINDER: email CH 12/13 Group/Individual class handouts.</td>
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<td>Assignment: Read CH 12/13 before next Monday.</td>
<td>Assignments: Read CH 12/13 before next Monday.</td>
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<td><strong>MEMORIAL DAY HOLIDAY</strong></td>
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<td>9</td>
<td>26 May</td>
<td>Testosterone, Turner's Syndrome.</td>
<td>Exam 7</td>
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<td>CH 14 Group Project presentation</td>
<td>CH 14 Group Project presentation</td>
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<td>CH 14 Individual Project presentations (As time permits)</td>
<td>REMINDER: email CH 14 Group/Individual class handouts.</td>
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<td>Assignment: Read CH 14 before next Wednesday.</td>
<td>Assignments: Read CH 14 before next Wednesday.</td>
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<td><strong>ALL LATE WORK DUE</strong></td>
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<td>10</td>
<td>2 Jun</td>
<td>Chemistry of attachment</td>
<td>Exam 8</td>
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<td>CH 17 Group Project presentation</td>
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<td>(Wed) CH 17 Individual Project presentations/Individual Project presentations</td>
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<td>11</td>
<td>FINALS WEEK</td>
<td><strong>Exam 9</strong> (Monday, June 9, 1230-1420 - ALL LATE WORK DUE**</td>
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