# Proposal Summary and Routing Form

**Proposal Title:** Pharmacy electives PHAR 466 and PHAR 470  
**Initiating Unit or Individual:** pharmacy  
**Contact Person’s Name:** Elsie Lovsted  
**Contact Person’s E-mail:** lovstede@ferris.edu  
**Contact Person’s Phone:** 591-2238  
**Date or Term of Proposal Implementation:** Fall 2010  
- Group I - A – New degree/major or major, redirection of a current offering, or elimination of a degree, major or minor  
- Group I - B – New minors or concentrations  
- Group II - A – Minor curriculum clean-up and course changes  
- Group II - B – New Course  
- Group III - Certificates  
- Group IV – Off-Campus Programs

<table>
<thead>
<tr>
<th>Group/Individual</th>
<th>Signature</th>
<th>Date</th>
<th>Vote/Action *</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Curriculum Committee</td>
<td>Elsie Lovsted</td>
<td>4/5/10</td>
<td>7 Support, 0 Support with Concerns, 0 Not Support</td>
</tr>
<tr>
<td>College Faculty</td>
<td>Separate votes were taken at department meetings and the area combined (3/10/2010 and 3/16/2010)</td>
<td>4/7/10</td>
<td>16 Support, 0 Support with Concerns, 0 Not Support</td>
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<tr>
<td>Dean</td>
<td>Christopher</td>
<td>4/7/10</td>
<td>X Support, 0 Support with Concerns, 0 Not Support</td>
</tr>
<tr>
<td>University Curriculum Committee</td>
<td>Leonard Johnson</td>
<td>4/14/10</td>
<td>5 Support, 0 Support with Concerns, 0 Not Support</td>
</tr>
<tr>
<td>Senate</td>
<td>Richard Thompson</td>
<td>4/19/10</td>
<td>7 Support, 0 Support with Concerns, 0 Not Support</td>
</tr>
<tr>
<td>Academic Affairs</td>
<td>Donald Dehn</td>
<td>4/16/10</td>
<td>7 Support, 0 Support with Concerns, 0 Not Support</td>
</tr>
</tbody>
</table>

* Support with Concerns or Not Support must include a list of specific concerns. Votes must be shown for faculty groups. Administrators check appropriate action taken.

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To be completed by Academic Affairs

President (Date Approved)  
Board of Trustees (Date Approved)  
President’s Council (Date Approved)

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VPAA  
APR 15 2010  
PROVOST
1. Proposal Summary

(Summary is generally less than one page. Briefly: state what is proposed with a summary of rationale and highlights. Additional rationale may be attached.)

These courses are electives that will be offered for students in the Pharm.D. curriculum implemented Fall 2009. The students are required to take 4 credits of electives in the P-2 or P-3 year. Pharmacy and Geriatric Health is a replacement course for an elective currently offered and reflects the change to PHAR for all pharmacy courses.

2. Summary of All Course Action Required*

a. Newly Created Courses to FSU:
   Prefix   Number   Title
   PHAR    466     Medicinal Chemistry Research
   PHAR    470     Pharmacy and Geriatric Health

b. Courses to be Deleted From FSU Catalog:
   Prefix   Number   Title
   PHCH    472     Pharmacy and Geriatric Health

c. Existing Course(s) to be Modified:
   Prefix   Number   Title

d. Addition of existing FSU courses to program
   Prefix   Number   Title

e. Removal of existing FSU courses from program
   Prefix   Number   Title

3. Summary of All Consultations

Form Sent (B or C)   Date Sent   Responding Dept.   Date Received & by Whom
Form C             4-6-2010

4. Will External Accreditation be Sought? (For new programs or certificates only)

   _________ Yes   _________ No

If yes, name the organization involved with accreditation for this program.

5. Program Checksheets affected by this proposal.
FLITE SERVICES CONSULTATION FORM

To be completed by the liaison librarian and approved by the Dean of FLITE. All returned forms should be included in the proposal. FLITE must respond within 20 calendar days of receipt of this form to assure that the form is included in the final proposal.

FAILURE TO RESPOND IS CONSIDERED AS SUPPORT OF THE CHANGE.

RE: Proposal Title: Pharmacy electives PHAR 470 and PHAR 466
Projected number of students per year affected by proposed change: PHAR 470 12 students, PHAR 466 2 students

Initiator(s): Elsie Lovsted
Proposal Contact: Elsie Lovsted Date Sent: 4-6-2010
Department: College of Pharmacy Campus Address: College of Pharmacy (Please print)

Liaison Librarian Signature: [Signature] Date: 4-7-2010
Dean of FLITE Signature: [Signature] Date Returned: 4-12-10

Based upon our review on 4-7-2010 (date), FLITE concludes that:

☐ Library resources to support the proposed curriculum change are currently available.
☐ Additional Library resources are needed but can be obtained from current funds.
☐ Support, but significant additional Library funds/resources are required in the amount of $________.
☐ Does not support the proposal for reasons listed below.

Comment regarding the impact this proposal will have on library resources, collection development, programs, etc. Use additional pages if necessary.

Collection develop practices support the proposed courses.
NEW COURSE INFORMATION FORM

Course Identification:

Prefix: PHAR  Number: 466  Title: Medicinal Chemistry Research

Course Description: Instructor approval prior to enrollment

This course elective will take a pharmacy student into the world of raw drug discovery and learning about the processes involved to bring new drug candidates to the pharmacy shelve. This experience teaches them about what is scientifically involved in discovering potential drug candidate(s), investigating structure activity relationships, evaluating biological results for receptor selectivity and improving upon clinically used drugs.

Course Outcomes and Assessment Plan:
Student(s) will be evaluated by the instructor on their ability to perform daily research activities and tasks in the laboratory related to their research project. They will need to perform various research procedures, explain topics and research objectives/goals as well as achieve tangible results from goals set out each week. They will also be evaluated on their final research presentation to the P1 students in a structured lecture format.

The student will go through the process of learning about proving a hypothesis scientifically, both synthetically, biologically and clinically. Students will leave the elective with a true appreciation of drug discovery techniques used in pharmaceutical research as well as a great appreciation and foresight for what drug candidates in cancer as well as type II diabetes will be coming down the pipes in the near future.

Course Outline including Time Allocation:
6 hours x 15 weeks = 89 hours of bench research

Presentation of semester research to P1 students = 1 hour

Total of 90 hours for course

Outline of Course:
Review of hypothesis policy and procedures in research
Drug discovery process
Cancer and Diabetes research progress and obstacles
Drug project
Review of basic synthesis
Laboratory safety and procedures
Procedures for presentation
Result analysis
I. ACTION TO BE TAKEN: CREATE A NEW COURSE
   Notes
   1. Complete each item in Section I and Section II.
   2. If this course is to be used as a prerequisite for other university courses, Form Fs that reflect
      the prerequisite change must be submitted for those courses as well.

   Term Effective (6 digit code only): 201008  Examples: 200801(Spring), 200805(Summer), 200808(Fall)
   Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. PROPOSED FOR NEW COURSE: Complete all sections a through r. See manual for clarification.
   a. Course Prefix
   b. Number
   c. Enter Contact Hours per week in boxes.
   PHAR  466  LECTure  LAB  INDependent Study – Check (x) □ Practicum: □ Seminar: □
   d. Course Title: Medicinal Chemistry Research  (Limit to 30 characters/spaces.)
   e. College Code: PH  f. Department Code: PHAR
   Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.
   g. Type: □ Variable  X Fixed  h. Minimum Credit Hours 2  i. Maximum Credit Hours 2 .
   j. May Be Repeated for Added Credit: Check (x) □ Yes  X No
   k. Levels: Check (x) □ Undergraduate □ Graduate X Professional
   l. Grade Method: Check (x) X Normal Grading □ Credit/No Credit only (Pass/Fail)
   m. Does proposed new course replace an equivalent course? Check (x) □ Yes  X No
   n. Equivalent course: Prefix □  Number □  See instructions on Replacement courses.
   o. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.
   This course elective will take a pharmacy student into the world of raw drug discovery and learning about
   the processes involved to bring new drug candidates to the pharmacy shelf. This experience teaches
   them about what is scientifically involved in discovering potential drug candidate(s), investigating
   structure activity relationships, evaluating biological results for receptor selectivity and improving upon
   clinically used drugs.
   p. Term(s) Offered: Fall/Spring  (See instructions for listing.)  q. Max. Section Enrollment: 2
   r. Prerequisites/Co-requisites/Restrictions: (If none, leave blank.) Limited to 100 spaces. Instructor
      approval

UCC Chair Signature/Date:  Academic Affairs Approval Signature/Date:
Leonard Johnson  4/14/10  Donald Chancellor  9/16/10

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code
□ Basic Skill (BS)  □ General Education (GE)  □ Occupational Education (OC)  □ G.E. Codes

Office of the Registrar use ONLY
Date Rec’d:  Date Completed:  Entered: SCACRSE  SCADTL  SCARRES  SCAPREQ
NEW COURSE INFORMATION FORM
See Sample – Limit to Two Pages Please

Course Identification:

Prefix: PHAR    Number: 470    Title: Pharmacy and Geriatric Health

Course Description:

This course will assist pharmacy students in better understanding geriatric patients' unique healthcare needs by exposing them to lecture, discussion, observation, reading assignments, video, as well as one-on-one interaction with patients in clinical settings. Various experts from the geriatric field will be invited to discuss material with which they are most familiar. Students will develop a basic skill set for understanding and eventually, meeting the health care needs of geriatric patients.

Course Objectives

1. Develop increased understanding of geriatric patient's unique health care needs.
2. Describe the pharmacist's role in helping to meet and/or coordinate the health care needs of geriatric patients.
3. Expose the future pharmacist to medical situations which enhance their abilities to appropriately interact with other health care professionals (such as nurses, physicians, psychiatrists, dieticians, social workers, activity coordinators, etc.) in a team approach.
4. Develop and demonstrate appropriate interactions with geriatric patients while completing medical evaluations (such as MMSE, Geriatric Depression Scales, AIMS/DISCUS testing, etc.)
5. Introduce the student to non-traditional areas of practice.
6. Expose the student to formal patient-centered care, where pharmacists routinely impact medical outcomes.
7. Describe situations where medical and social ethical dilemmas in treating geriatric patients arise.
8. Introduce the student to treatment guidelines which are designed specifically for geriatric patients.
9. Introduce the student to key government-mandated, medically-related monitoring requirements in the long-term care environment.
10. Discuss important path-physiologic and basic therapeutic subject matters which are unique to geriatric patients such as:
   a. Stroke Identification and Prevention
   b. Urinary Incontinence and Constipation
   c. Adverse Drug Reaction Prevention
   d. Dementia
   e. Depression
   f. Behavioral Problems and Psychiatric Issues
   g. Hospice and End of Life
   h. Vaccines
   i. Orthostatic Hypotension
   j. Benign Prostatic Hypertrophy and Prostate Cancer
   k. Osteoporosis
   l. Glaucoma and Macular Degeneration

Assessment Plan: Written Examinations, participation, reflection-assignments
## Course Outline including Time Allocation:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time (Hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classroom lecture and discussion of subject matter</td>
<td>20</td>
</tr>
<tr>
<td>Visit skilled nursing facilities and perform medical evaluations and chart reviews</td>
<td>4</td>
</tr>
<tr>
<td>Examinations</td>
<td>2</td>
</tr>
<tr>
<td>Reflection and evaluation discussions</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>
I. ACTION TO BE TAKEN: CREATE A NEW COURSE

Notes
1. Complete each item in Section I and Section II.
2. If this course is to be used as a prerequisite for other university courses, Form Fs that reflect the prerequisite change must be submitted for those courses as well.

Term Effective (6 digit code only): 201008  Examples: 200801(Spring), 200805(Summer), 200808(Fall)
Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. PROPOSED FOR NEW COURSE: Complete all sections a through r. See manual for clarification.

a. Course Prefix PHAR
b. Number 470

LECture 2  LAB INDependent Study – Check (x) Practicum: □
Seminar: □

d. Course Title Pharmacy and Geriatric Health
   (Limit to 30 characters/space.)

e. College Code PH f. Department Code PHAR
Credit Hours: Check (x) and enter maximum and minimum hours in boxes.

g. Type: □ Variable X Fixed h. Minimum Credit Hours 2 i. Maximum Credit Hours 2

j. May Be Repeated for Added Credit: Check (x) Yes X No

k. Levels: Check (x) □ Undergraduate □ Graduate X Professional

l. Grade Method: Check (x) X Normal Grading □ Credit/No Credit only (Pass/Fail)
m. Does proposed new course replace an equivalent course? Check (x) XYes □ No

n. Equivalent course: Prefix PHCH Number 472 See instructions on Replacement courses.

o. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.
This course will assist pharmacy students in better understanding geriatric patients’ unique healthcare needs by exposing them to lecture, discussion, observation, reading assignments, video, as well as one-on-one interaction with patients in clinical settings. Various experts from the geriatric field will be invited to discuss material with which they are most familiar. Students will develop a basic skill set for understanding and eventually, meeting the healthcare needs of geriatric patients.

p. Term(s) Offered: Fall/Spring/Summer (See instructions for listing.) q. Max. Section Enrollment: 12
r. Prerequisites/Co-requisites/Restrictions: (If none, leave blank.) Limited to 100 spaces. Prerequisite: second professional year status

UCC Chair Signature/Date: 4/14/10

Academic Affairs Approval Signature/Date: 4/14/10

To be completed by Academic Affairs Office: □ Standard & Measures Coding and General Education Code □ Basic Skill (BS) □ General Education (GE) □ Occupational Education (OC) □ G.E. Codes

Office of the Registrar use ONLY

Date Rec’d: ___ Date Completed: ___ Entered: SCACRSE _ SCADTL _ SCARRES _ SCAPREQ __
I. ACTION TO BE TAKEN: DELETE COURSE FROM CATALOG.

Note: Complete each section.

The course described below will be moved to inactive status.

a. Term Effective: Term Fall Year 2010 See instructions.

II. CURRENT COURSE TO BE DELETED FROM THE ACTIVE STATUS:

Include the information that is in the current course database.

a. Course Prefix PHCH

b. Number 472

c. Enter Contact Hours per week in boxes. LECTure 2 LAB INDependent Study – Check (x) □

Practicum: Seminar:

d. Full Course Title Pharmacy and Geriatric Health

UCC Chair Signature/Date: 

Leonard Johnson 4/14/10

Academic Affairs Approval Signature/Date:

[Signature] 4/16/10

Office of the Registrar use ONLY

Date Rec’d: ___ Date Completed: ___ Entered: SCACRSE _ SCADETL _ SCARRES _ SCAPREQ _