

**1. General Information**

1a. Submitted by the College of: ARTS &amp; SCIENCES

Date Submitted: 12/24/2014

1b. Department/Division: Chemistry

1c. Contact Person

Name: Arthur Cammers

Email: a.cammers@uky.edu

Phone: 3238977

Responsible Faculty ID (if different from Contact)

Name:

Email:

Phone:

1d. Requested Effective Date: Semester following approval

1e. Should this course be a UK Core Course? No

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OFFICE OF THE  
SENATE COUNCIL**2. Designation and Description of Proposed Course**

2a. Will this course also be offered through Distance Learning?: No

2b. Prefix and Number: CHE 472

2c. Full Title: Communication in Chemistry 2

2d. Transcript Title: Communication in Chemistry 2

2e. Cross-listing:

2f. Meeting Patterns

SEMINAR: 1.0

2g. Grading System: Letter (A, B, C, etc.)

2h. Number of credit hours: 1

2i. Is this course repeatable for additional credit? No

If Yes: Maximum number of credit hours:

If Yes: Will this course allow multiple registrations during the same semester?

2j. Course Description for Bulletin: Reports and discussions on recent research and current chemical literature in seminar format; literature searching methods; resume construction; preparation of effective presentations abstracts and visual aids. CHE 472 and CHE 372 meet the A&amp;S College Writing and Communications Requirement.

2k. Prerequisites, if any: CHE 372 or consent of the Chemistry Director of Undergraduate Studies

2l. Supplementary Teaching Component:

3. Will this course taught off campus? No

If YES, enter the off campus address:

4. Frequency of Course Offering: Spring,

Will the course be offered every year?: Yes

If No, explain:

5. Are facilities and personnel necessary for the proposed new course available?: Yes

If No, explain:

6. What enrollment (per section per semester) may reasonably be expected?: 35

7. Anticipated Student Demand

Will this course serve students primarily within the degree program?: Yes

Will it be of interest to a significant number of students outside the degree pgm?: No

If Yes, explain:

8. Check the category most applicable to this course: Traditional – Offered in Corresponding Departments at Universities Elsewhere,

If No, explain:

9. Course Relationship to Program(s).

a. Is this course part of a proposed new program?: No

If YES, name the proposed new program:

b. Will this course be a new requirement for ANY program?: Yes

If YES, list affected programs: B.S. Degree in Chemistry B.S. Degree in Chemistry with a Biochemistry Emphasis B.A. Degree in Chemistry CHE 472 is not a 'new' requirement. Previously the approximate content was taught in two sections of CHE 572. CHE 572 has been discontinued. CHE 472 has been designed to meet the A&S writing and communication requirement.

10. Information to be Placed on Syllabus.

a. Is the course 400G or 500?: No

b. The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from 10.a above) are attached: Yes

## Distance Learning Form

Instructor Name:

Instructor Email:

Internet/Web-based: No

Interactive Video: No

Hybrid: No

1. How does this course provide for timely and appropriate interaction between students and faculty and among students? Does the course syllabus conform to University Senate Syllabus Guidelines, specifically the Distance Learning Considerations?

2. How do you ensure that the experience for a DL student is comparable to that of a classroom-based student's experience? Aspects to explore: textbooks, course goals, assessment of student learning outcomes, etc.

3. How is the integrity of student work ensured? Please speak to aspects such as password-protected course portals, proctors for exams at interactive video sites; academic offense policy; etc.

4. Will offering this course via DL result in at least 25% or at least 50% (based on total credit hours required for completion) of a degree program being offered via any form of DL, as defined above?

If yes, which percentage, and which program(s)?

5. How are students taking the course via DL assured of equivalent access to student services, similar to that of a student taking the class in a traditional classroom setting?

6. How do course requirements ensure that students make appropriate use of learning resources?

7. Please explain specifically how access is provided to laboratories, facilities, and equipment appropriate to the course or program.

8. How are students informed of procedures for resolving technical complaints? Does the syllabus list the entities available to offer technical help with the delivery and/or receipt of the course, such as the Information Technology Customer Service Center (<http://www.uky.edu/UKIT/>)?

9. Will the course be delivered via services available through the Distance Learning Program (DLP) and the Academic Technology Group (ATL)? NO

If no, explain how student enrolled in DL courses are able to use the technology employed, as well as how students will be provided with assistance in using said technology.

10. Does the syllabus contain all the required components? NO

11. I, the instructor of record, have read and understood all of the university-level statements regarding DL.

Instructor Name:

SIGNATURE|MEIER|Mark S Meier|CHE 472 NEW Dept Review|20140214

SIGNATURE|RHANSON|Roxanna D Hanson|CHE 472 NEW College Review|20140306

SIGNATURE|JMETT2|Joanie Ett-Mims|CHE 472 NEW Undergrad Council Review|20150114

Courses	Request Tracking
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## New Course Form

<https://myuk.uky.edu/sap/bc/soap/rfc?services=>

[Open in full window to print or save](#)

Generate R

**Attachments:**

Upload File

	ID	Attachment
Delete	4252472	472 Syllabus-2.docx

1

Select saved project to retrieve...

(\*denotes required fields)

## 1. General Information

- a. \* Submitted by the College of:  Submission Date:
- b. \* Department/Division:
- c.
- \* Contact Person Name:  Email:  Phone:
- \* Responsible Faculty ID (if different from Contact):  Email:  Phone:
- d. \* Requested Effective Date:  Semester following approval OR  Specific Term/Year<sup>1</sup>
- e.
- Should this course be a UK Core Course?  Yes  No
- If YES, check the areas that apply:
- Inquiry - Arts & Creativity  Composition & Communications - II
- Inquiry - Humanities  Quantitative Foundations
- Inquiry - Nat/Math/Phys Sci  Statistical Inferential Reasoning
- Inquiry - Social Sciences  U.S. Citizenship, Community, Diversity
- Composition & Communications - I  Global Dynamics

## 2. Designation and Description of Proposed Course.

- a. \* Will this course also be offered through Distance Learning?  Yes<sup>4</sup>  No
- b. \* Prefix and Number:
- c. \* Full Title:
- d. Transcript Title (if full title is more than 40 characters):
- e. To be Cross-Listed<sup>2</sup> with (Prefix and Number):
- f. \* Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours<sup>3</sup> for each meeting pattern type.
- |                                       |  |                                      |                                     |
|---------------------------------------|--|--------------------------------------|-------------------------------------|
| <input type="checkbox"/> Lecture      | <input type="checkbox"/> Laboratory <sup>1</sup> | <input type="checkbox"/> Recitation  | <input type="checkbox"/> Discussion |
| <input type="checkbox"/> Indep. Study | <input type="checkbox"/> Clinical                | <input type="checkbox"/> Colloquium  | <input type="checkbox"/> Practicum  |
| <input type="checkbox"/> Research     | <input type="checkbox"/> Residency               | 1.0 <input type="checkbox"/> Seminar | <input type="checkbox"/> Studio     |
| <input type="checkbox"/> Other        | If Other, Please explain: <input type="text"/>   |                                      |                                     |
- g. \* Identify a grading system:
- Letter (A, B, C, etc.)
- Pass/Fail
- Medicine Numeric Grade (Non-medical students will receive a letter grade)
- Graduate School Grade Scale
- h. \* Number of credits:
- i. \* Is this course repeatable for additional credit?  Yes  No
- If YES: Maximum number of credit hours:
- If YES: Will this course allow multiple registrations during the same semester?  Yes  No

## j. \* Course Description for Bulletin:

Reports and discussions on recent research and current chemical literature in seminar format; literature searching methods; resume construction; preparation of effective presentations abstracts and visual aids. CHE 472 and CHE 372 meet the A&S College Writing and Communications Requirement.

## k. Prerequisites, if any:

CHE 372 or consent of the Chemistry Director of Undergraduate Studies

l. Supplementary teaching component, if any:  Community-Based Experience  Service Learning  Both3. \* Will this course be taught off campus?  Yes  No

If YES, enter the off campus address:

## 4. Frequency of Course Offering.

a. \* Course will be offered (check all that apply):  Fall  Spring  Summer  Winter

b. \* Will the course be offered every year?  Yes  No

If No, explain:

5. \* Are facilities and personnel necessary for the proposed new course available?  Yes  No

If No, explain:

## 6. \* What enrollment (per section per semester) may reasonably be expected? |35

## 7. Anticipated Student Demand.

a. \* Will this course serve students primarily within the degree program?  Yes  No

b. \* Will it be of interest to a significant number of students outside the degree pgm?  Yes  No

If YES, explain:

## 8. \* Check the category most applicable to this course:

Traditional – Offered in Corresponding Departments at Universities Elsewhere

Relatively New – Now Being Widely Established

Not Yet Found in Many (or Any) Other Universities

## 9. Course Relationship to Program(s).

a. \* Is this course part of a proposed new program?  Yes  No

If YES, name the proposed new program:

b. \* Will this course be a new requirement<sup>1</sup> for ANY program?  Yes  No

If YES<sup>1</sup>, list affected programs:

B.S. Degree in Chemistry  
B.S. Degree in Chemistry with a Biochemistry Emphasis

## 10. Information to be Placed on Syllabus.

a. \* Is the course 400G or 500?  Yes  No

If YES, the *differentiation for undergraduate and graduate students must be included* in the information required in 10.b. You must include: (i) identify additional assignments by the graduate students; and/or (ii) establishment of different grading criteria in the course for graduate students. (See SR

b.  \* The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable 10.a above) are attached.

<sup>1</sup> Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.  
<sup>2</sup> The chair of the cross-listing department must sign off on the Signature Routing Log.

⚠ In general, undergraduate courses are developed on the principle that one semester hour of credit represents one hour of classroom meeting per week for a semester, exclusive of any laboratory meeting. Laboratory meeting, generally, is two hours per week for a semester for one credit hour. (from SR 5.2.1)  
⚠ You must also submit the Distance Learning Form in order for the proposed course to be considered for DL delivery.  
⚠ In order to change a program, a program change form must also be submitted.

Rev 8/09

Submit as New Proposal    Save Current Changes

**CHE 472****Communication in Chemistry II**

Fall Semester 2014, Wednesday 4:00 p.m., CP-114

**Instructor:** John P. Selegue, CP-11, [selegue@uky.edu](mailto:selegue@uky.edu), 257-3484 Office Hours: TR 10:30 a.m.-12:00 noon, W 3:00-4:00 p.m. or e-mail for an appointment.

**Course Description:**

**CHE 472 - Communication in Chemistry II.** CHE 472 focuses on the preparation and delivery of effective presentations, and visual aids along with professional development. CHE 372 and CHE 472 are designed to meet the writing and communications demands of a professional chemist and fulfill the UK Graduate Composition and Communication Requirement (GCCR) for UK Chemistry BS and BA programs. Prerequisites: CHE 372 or consent of the Chemistry Director of Undergraduate Studies

**Student Learning Outcomes:**

CHE 472 is designed to give the student the ability to:

1. Prepare informative, compelling oral presentations about chemistry.
2. Professional development of CV and collection of skill set.
3. Plan for future employment and appreciate the varied professions and career opportunities that are accessible with a chemistry degree.
4. Write and edit text about chemical science that observes current professional standards of citation and format.
5. Thoroughly edit scientific documents for clarity and accuracy.

**Goals and Objectives:**

1. Increased literacy in the chemical sciences.
2. The development of chemical literacy by attending seminars.
3. Realize which careers are available to chemistry graduates.
4. Plan career-life post-graduation.

**Required Materials**

Other than access to a computer and basic familiarity with web browsing, the student will not have to acquire additional materials for CHE 472.

**Description of Course Activities and Assignments****(1) Seminar Date, Topics, and Titles**

You will give a 25-minute seminar on a chemistry topic—CHE 395 students are encouraged to make this topic about their research. Please come to an agreement with your instructor regarding your seminar date, title/ topic by email, in office hours or by appointment. Have some alternate seminar topics in mind, since the first person to choose a topic gets it. Submit *in writing* (e-mail: subject line: CHE 472 Title) your name, the approved title, and the seminar date before class meets on **Wednesday, September 11**.

## (2) Abstract

You must prepare a one-page abstract for your talk with a picture or graphic content about your talk. The abstract will be graded on clarity, conciseness, appropriateness, English usage, grammar, and adherence to the required format. E-mail to your instructor the final form of your abstract in Microsoft Word, rtf or pdf format **by noon on Monday of the week of your seminar**. The abstract will be posted on the course Blackboard site in pdf. Cite 3 to 6 *key* articles that you actually consulted in preparing your talk.

## (3) Videographer

One student will record another student's presentation on video. The schedule for video-recording will be made shortly after the seminar schedule is finalized. The videographer may use the departmental video camera or his/her own device (Smartphone, etc.). Please pick up the departmental camera (and instructions if you need them) from CP-125 in time to set it up *before* class starts. If you use your own device, be sure that you know how to record the video, how to transfer or upload the file, and have enough memory to store it. Please provide the file or a download link to both the presenter and instructor by 4:00 p.m. on Friday following the seminar.

## (4) Writing Assignment

The written assignment is an informative report with a minimum length of ~3000 words, ~10 pages. CHE 395 (undergraduate research) students are encouraged to write an original paper describing the background and findings of their research. Students not enrolled in CHE 395 should attend a Chemistry Departmental seminar and expand a chemistry sub-topic from this seminar. This document will be targeted for peer readers, will be peer-reviewed twice by fellow students, and then graded.

The paper must cite articles from the primary scientific literature, not general-interest magazines, newspapers or websites. Your citations for the abstract and writing assignment must be formatted according to Table 14-2 in: Dodd, J. S.; Solla, L.; Bérard, P. M., Chapter 14: References. In *The ACS style guide: effective communication of scientific information*, Third ed.; Coghill, A. M.; Garson, L. R., Eds. American Chemical Society: Washington, DC, 2006; pp 287-341. Two copies are on reserve in the Science Library. Please include journal article titles. If you are using the program *EndNote*, please use the *Journal of American Chemical Society* style setting to facilitate the inclusion of bibliographic information. It integrates seamlessly with MS Word and is available free of charge for Windows or Mac at <https://download.uky.edu/>. Get started with *EndNote*; the Science Librarian will discuss its usage in this course.

*About Departmental Seminars.* A listing of Chemistry Departmental Seminars is at <http://chem.as.uky.edu/seminars>. Named lectures (Dawson Lecture Series, Naff Symposium) are typically prestigious speakers presenting their work to a broad audience. You should try to attend all department seminars in Chemistry or your major department. Seminars often present the latest knowledge about a particular subject. Attendance will teach you something, show you how much you don't know about a particular field, and allow you to mark your development as you learn. With some effort, you will begin to understand the seminars much better. Be patient. You will be able to think back to when you didn't understand the content very well. At some point, you might do some chemistry research. A history of seminar attendance will help you in making the right choice of research topic. Seminar attendance now will make you a better educator if you go into teaching or more scientifically literate in any profession you choose.



### (5) Department Seminar Evaluation

CHE 472 students must attend one Chemistry Departmental seminar and complete evaluation forms for the talk. The speakers must *not* be affiliated with the University of Kentucky. Students with schedule conflicts or strong interests in other areas may substitute a *chemistry-related* seminar by a non-UK speaker in Departments such as Physics, Chemical Engineering or Biochemistry. Evaluations should be submitted as soon as possible after the seminar you attend. All evaluations are due before class on **Wednesdays, October 23 and November 27**.

*About Departmental Seminars.* A listing of Chemistry Departmental Seminars is at <http://chem.as.uky.edu/seminars>. Named lectures (Dawson Lecture Series, Friday, November 1, 2013) are typically prestigious speakers presenting their work to a broad audience. You should try to attend all department seminars in Chemistry or your major department. With some effort, you will begin to understand the seminars much better. Be patient.

### (6) Class participation

**Attendance:** Students are expected to attend every class punctually. Support your classmates. In a seminar class, habitual non-attendance and tardiness are rude to the presenters. Attendance will be taken. Each two unexcused absences will lower your course grade by a letter. Policies related to official University excused absences may be found in the *Student Rights and Responsibilities* manual. [See <http://www.uky.edu/StudentAffairs/Code/>, Section 5.2.4.2.] Excused absences must be discussed with and approved by your instructor within one week of the missed class. Unexcused tardiness will be penalized by a deduction of 1% (out of 10%) from your class participation grade.

**Discussions and question/answer sessions:** Instructors will monitor participation in class discussions. Students are expected to ask at least five substantial questions during the semester. A substantial question relates to the content, background or broader aspects of the seminar topic, not to the format or style of the presentation. Please state your name clearly when asking a question of a seminar speaker.

**Make-up opportunity:** Students missing a class with a legitimate, documented excuse under the guidelines outlined in the University Senate Rules must provide documentation covering the date of the missed class, typically from a medical doctor or a University faculty member. Students who miss the class of their own presentation, introduction or video recording will reschedule later in the semester. If possible, they will take over the duty of the student who filled in for them. Students who miss a class as an audience member will view the recorded presentations within a week and turn in their evaluations at the next class meeting.

**Grading Policy:** (1) Seminar and Abstract = 35%, (2) Peer-editing 10%, (3) Writing Assignment 50%, (4) Department Seminar Evaluation = 5%.

**Exams:** There are no exams in this course.

#### Grading Scale

89.50–100% = A  
79.50–89.49% = B  
69.5–79.49% = C  
59.5–69.49% = D  
0–59.49% = E

**Visual Aids:** Computer-based (e.g., PowerPoint) presentations have become the *de facto* standard for professional presentations. You may use the Windows computer in CP-137 or your own computer. If you wish to supplement your talk with additional audio or visual aids, please make arrangements by the class meeting a week before your presentation *at the latest*. Make sure that all parts of your presentation work *before* you are in front of your audience.

**Seminar Review and Conference:** You will receive a video or download link of your seminar from your videographer or instructor by Friday after your seminar. View the presentation and use a student evaluation form for self-evaluation. Bring the form along with the video or link to a brief conference with your instructor, during office hours or by appointment, during the week after our seminar.

**Introduction of Peers before Seminar:** Obtain background information from the person you are going to introduce at least one week ahead of his or her seminar. Suggestions: Welcome the audience. Give the speaker's name, home town, academic year, other interests, general plans after graduation, and the title of the seminar. The time for the introduction should be one minute or less. Introduce the speaker with the same level of professional style and care with which you would like to be introduced yourself.

**Seminar Behavior, Decorum, and Civility:** In addition to a scholarly demeanor and civility to all, common courtesy is expected of everyone involved in CHE 472. Please arrive on time with your cell phone in silent mode.

**Academic Dishonesty:** Fortunately, there is very little reason for academic dishonesty in CHE 472, and few instances have arisen over the years. Junior and senior science majors are *professionals* in training. We will treat you as aspiring professionals, and we expect you to behave like professionals. The Department of Chemistry considers any type of academic dishonesty a very serious offense and we will follow the required university procedures. **If you have questions about what may constitute academic dishonesty in this course, please ask.**

The minimum, *required* penalty for proven academic dishonesty (cheating) is a grade of a zero for the assignment - for a student's first offense at the University. Additional penalties may be imposed by the instructor for a first offense depending on the degree of severity of the transgression and other factors. These can include extra work, reduced letter grade, or a failure of the course. For a penalty less severe than a failure of the course, a letter of warning for a minor offense, which is destroyed on graduation if there are no subsequent offenses, is placed in the student's official record.

The minimum penalty for an offense subsequent to a minor offense is failure of the course, which is subject to the Repeat Option. The minimum penalty for an offense subsequent to a major offense is suspension. A penalty more severe than failure of the course may be imposed for a first or second offense, subject to approval of the Department Chair and the Dean.

University rules pertinent to academic dishonesty, including rights of appeal, are available at:

- <http://www.uky.edu/StudentAffairs/Code/part2.html>
- [http://www.uky.edu/Faculty/Senate/rules\\_regulations/index.htm](http://www.uky.edu/Faculty/Senate/rules_regulations/index.htm). See Sections 6.3-6.5.