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UCC Minutes, 11/16/2004

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UNDERGRADUATE CURRICULUM MINUTES

Date: 11/16/2004

Minutes Approved by: 

Date: 12/16/04

TO: Dr. Stephen A. Richters
Provost

FROM: Dr. Jo Galle, Chair
Undergraduate Curriculum Committee
And
Dr. Lon Smith, Vice-Chair
Undergraduate Curriculum Committee

FACULTY MEMBERS PRESENT: J. Galle, L. Smith, C. Michaelides, R. Hanser, P. Sanders, P. Meredith, A. Kelly, J. Wood

FACULTY MEMBERS ABSENT BUT EXCUSED: None

FACULTY MEMBERS ABSENT: J. Robertson (EO), E. Guerriero, D. Schween, S. Sirmans

STUDENT MEMBERS PRESENT: N/A

STUDENT MEMBERS ABSENT: N/A

1. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CHANGE the degree plan for Bachelor of Science in
Chemistry

New Degree Plan:

DEPARTMENT OF CHEMISTRY

Brotherton, Arant, Bruscato, Cruse, G. Findley, Fox, Junk, Pugh, Taylor, Watkins, Watson

All B.S. Chemistry majors must take six hours of a foreign language and forty-nine hours of core courses. The core must include the following thirty-three hours of chemistry courses: Chemistry 107, 108, 109, 110, 301, 230, 231, 232, 233, 240, 241, 310, 350, 431, and 407.

Chemistry majors may choose the American Chemical Society Certified Concentration or the Non-ACS-Certified Concentration.

American Chemical Society Certified Concentration. To complete the 49-hour core, American

UNDERGRADUATE CURRICULUM MINUTES

Chemical Society Certified Degree candidates must take Chemistry 320, 321, 322, 323, 413, and 499. Additional requirements include Mathematics 113, 131, 132, and 232; Physics 207, 208, 209, and 210.

Non-ACS-Certified Concentration. To complete the 49-hour core, Non-ACS-certified majors must take Chemistry 220, 499 and eight hours of specialty elective courses. Additional requirements for the Non-ACS-Certified Degree include Mathematics 113 and 114; Physics 203, 204, 209, and 210; and twenty hours of free electives. Of the total twenty-eight hours of elective courses (8 specialty electives and 20 free electives), at least fifteen hours must be numbered 300 or above.

CHEMISTRY

Note: On any line below, if ACS-Certified Concentration and Non-ACS-Certified courses differ, the Non-ACS Certified courses are listed in brackets { }.

Freshman Year Hrs.

Chemistry 107 ^{cnp} , 109; 108 ^{cnp} , 110	8
Core English Composition*	6
Mathematics 113, 131 or	
{Mathematics 113, 114} ^{cm}	7 {6}
Core Social Science (Group 1)*	3
Core Natural/Physical Science (Biological Science)*	3
Core Humanities*	6
FRYS 101	(1)
	33 {32}

Sophomore Year

Chemistry 230, 231, 232, 233, 240, 241	13
Mathematics 132; 232; or {Electives}	8
Physics 207, 208 or {203, 204}	6
Physics 209, 210	2
Core Fine Arts*	3
	32

Junior Year

Chemistry 301; {220}; 310; 350	8 {11}
Chemistry 320, 321, 322, 323 or	
{Specialty Electives}	8
Computer Science Elective	3
Core Humanities*	3
Foreign Language	3
Core Social Science (Group 2)*	3
	28 {31}

Senior Year

Chemistry 431, 407, 499	9
Chemistry 413 or {Elective}	3

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Electives	11 {9}
Kinesiology Activities.....	2
Foreign Language (Same Language)	3
University Capstone 300 ^{uc}	<u>3</u>
	31 {29}

Total hours for degree, 124.

*Students should see Arts and Sciences Core Curriculum requirements on page 88.

Level: Undergraduate
 Beginning Term: 054

APPROVED

2. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
 Action: ADD new course CHEM 352 “Biochemistry II” to the undergraduate catalog.

Thermodynamics, metabolism, photosynthesis, protein and nucleic acid biosynthesis. Three hours lecture. Prerequisite: “C” or better in CHEM 350.

Sp

Credit hours: 3
 Level: Undergraduate
 Activity Type: LEC
 Maximum Hours To Be Earned: 3
 Cross-Listed:
 Beginning Term: 061
 Offered
 Fixed/Variable: Fixed
 Variable Range:
 Abbreviated Course
 Title:

APPROVED

3. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
 Action: ADD new course CHEM 351 “Biochemistry Laboratory I” to

UNDERGRADUATE CURRICULUM MINUTES

the undergraduate catalog.

Laboratory to accompany Biochemistry I. Introduction to procedures used in Biochemistry Laboratory. Three hours laboratory. Prerequisites: Credit or registration in CHEM 350 and "C" or better in CHEM 233. F

Credit hours: 1
Level: Undergraduate
Activity Type: LAB
Maximum Hours To Be Earned: 1
Cross-Listed:
Beginning Term: 064
Offered
Fixed/Variable: Fixed
Variable Range:
Abbreviated Course Title: Biochemistry Lab I

APPROVED

4. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: ADD new course CHEM 350 "Biochemistry I" to the undergraduate catalog.

Introduction to structure and function of proteins, nucleic acids, lipids and carbohydrates and enzyme kinetics, mechanisms, regulation, and vitamins. Three hours lecture.

Credit hours: 3
Level: Undergraduate
Activity Type: LEC
Maximum Hours To Be Earned: 3
Cross-Listed:
Beginning Term: 054
Offered
Fixed/Variable: Fixed
Variable Range:
Abbreviated Course Title:

APPROVED

UNDERGRADUATE CURRICULUM MINUTES

5. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: ADD new course CHEM 323 "Physical Chemistry Laboratory II" to the undergraduate catalog.
Modern experimental techniques of physical chemistry. Three hours laboratory. Prerequisite: "C" or better in CHEM 321; credit or registration in CHEM 322. Sp

Credit hours: 1
Level: Undergraduate
Activity Type: LAB
Maximum Hours To Be Earned: 1
Cross-Listed:
Beginning Term: 061
Offered Fixed
Fixed/Variable:
Variable Range:
Abbreviated Course Title: Physical Chem Lab II

APPROVED

6. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: ADD new course CHEM 322 "Physical Chemistry II" to the undergraduate catalog.
Continuation of Chemistry 320. Theories of atomic and molecular structure, spectroscopy and quantum mechanics are applied to chemical systems. Three hours lecture; one hour recitation. Prerequisite: "C" or better in CHEM 320. Sp

Credit hours: 3
Level: Undergraduate
Activity Type: LEC
Maximum Hours To Be Earned: 3
Cross-Listed:
Beginning Term: 061
Offered Fixed

UNDERGRADUATE CURRICULUM MINUTES

Fixed/Variable:
Variable Range:
Abbreviated Course Title: Physical Chem II

APPROVED

7. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: ADD new course CHEM 321 "Physical Chemistry Laboratory I" to the undergraduate catalog.
Modern experimental techniques in physical chemistry. Three hours laboratory. Prerequisite: "C" or better in CHEM 241 and credit or registration in CHEM 320. F
Credit hours: 1
Level: Undergraduate
Activity Type: LEC
Maximum Hours To Be Earned: 1
Cross-Listed:
Beginning Term: 054
Offered: Fixed
Fixed/Variable:
Variable Range:
Abbreviated Course Title: Physical Chem Lab I

APPROVED

8. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: ADD new course CHEM 320 "Physical Chemistry I" to the undergraduate catalog.
Fundamental interpretations of the physical principles of chemistry with emphasis on equilibrium thermodynamics and chemical kinetics. Three hours lecture; one hour recitation. Prerequisites: "C" or better in CHEM 108; PHYS 208; MATH 132. F
Credit hours: 3

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Level: Undergraduate
Activity Type: LEC
Maximum Hours To Be Earned: 3
Cross-Listed:
Beginning Term: 054
Offered
Fixed/Variable: Fixed
Variable Range:
Abbreviated Course Title: Physical Chem I

APPROVED

9. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: ADD new course CHEM 310 "Descriptive Inorganic Chemistry" to the undergraduate catalog.
Discussion of elemental properties, elemental combinations into ionic and molecular compounds, and periodic trends. Laboratory synthesis and characterization of inorganic compounds. Three hours lecture; three hours laboratory. Prerequisites: "C" or better in CHEM 108. Sp (Formerly 313/314)
Credit hours: 4
Level: Undergraduate
Activity Type: LEC/LAB
Maximum Hours To Be Earned: 4
Cross-Listed:
Beginning Term: 061
Offered
Fixed/Variable: Fixed
Variable Range:
Abbreviated Course Title: Descrip Inorg Chem

APPROVED

UNDERGRADUATE CURRICULUM MINUTES

10. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: ADD new course CHEM 240 "Quantitative Analysis" to the undergraduate catalog.
Discussion of techniques and theories of gravimetric, volumetric, and physicochemical methods of analysis. Three hours lecture. Prerequisite: "C" or better in CHEM 108. F (Formerly 307)

Credit hours: 3
Level: Undergraduate
Activity Type: LEC
Maximum Hours To Be Earned: 3
Cross-Listed:
Beginning Term: 054
Offered Fixed
Fixed/Variable:
Variable Range:
Abbreviated Course Title: Quant Analysis

APPROVED

11. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: ADD new course CHEM 233 "Organic Chemistry Laboratory II" to the undergraduate catalog.
Laboratory to accompany Organic Chemistry II. Application of techniques from Organic Chemistry I to organic reactions. Three hours laboratory. Prerequisites: "C" or better in CHEM 231 and credit or registration in CHEM 232. F, Sp, Su2 (Formerly 306)

Credit hours: 1
Level: Undergraduate
Activity Type: LAB
Maximum Hours To Be Earned: 1
Cross-Listed:
Beginning Term: 054
Offered Fixed

UNDERGRADUATE CURRICULUM MINUTES

Fixed/Variable:
Variable Range:
Abbreviated Course Title: Organic Chem Lab II

APPROVED

12. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: ADD new course CHEM 241 "Quantitative Analysis Laboratory" to the undergraduate catalog.
A Laboratory course to accompany CHEM 240. Six hours laboratory.
Prerequisite: 'C' or better in CHEM 110 and credit or registration in CHEM 240. F (Formerly 308)
Credit hours: 2
Level: Undergraduate
Activity Type: LAB
Maximum Hours To Be Earned: 2
Cross-Listed:
Beginning Term: 054
Offered: Fixed
Fixed/Variable:
Variable Range:
Abbreviated Course Title: Quant Analysis Lab

APPROVED

13. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: ADD new course CHEM 232 "Organic Chemistry II" to the undergraduate catalog.
Spectroscopic techniques and the chemistry of aromatic compounds, carbonyl compounds, and amines will be covered. Three hours lecture. Prerequisites: "C" or better in CHEM 230. F, Sp, Su2 (Formerly 304)
Credit hours: 3
Level: Undergraduate

UNDERGRADUATE CURRICULUM MINUTES

Activity Type: LEC
Maximum Hours To Be Earned: 3
Cross-Listed:
Beginning Term: 054
Offered
Fixed/Variable: Fixed
Variable Range:
Abbreviated Course Title:

APPROVED

14. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: ADD new course CHEM 231 "Organic Chemistry Laboratory I" to the undergraduate catalog.
Laboratory to accompany Organic Chemistry I. Introduction to procedures used in Organic Laboratory. Three hours laboratory. Prerequisites: Credit or registration in CHEM 230 and "C" or better in CHEM 110. F, Sp, Su1 (Formerly 305)
Credit hours: 1
Level: Undergraduate
Activity Type: LAB
Maximum Hours To Be Earned: 1
Cross-Listed:
Beginning Term: 054
Offered
Fixed/Variable: Fixed
Variable Range:
Abbreviated Course Title: Organic Chem Lab I

APPROVED

UNDERGRADUATE CURRICULUM MINUTES

15. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: ADD new course CHEM 230 "Organic Chemistry I" to the undergraduate catalog.
Discussion of structure and bonding theory, acid-base chemistry, reactions of alkanes, alkenes, alkynes, alcohols, and alkyl halides. Three hours lecture.
Prerequisite: "C" or better in CHEM 108. F, Sp, Su1 (Formerly 303)

Credit hours: 3
Level: Undergraduate
Activity Type: LEC
Maximum Hours To Be Earned: 3
Cross-Listed:
Beginning Term: 054
Offered Fixed
Fixed/Variable:
Variable Range:
Abbreviated Course Title: Organic Chemistry I

APPROVED

16. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: ADD new course CHEM 220 "Introduction to Physical Chemistry" to the undergraduate catalog.
Discussion of basic chemical principles including thermodynamics, kinetics, equilibrium, and quantum mechanics, with applications to biological molecules. Three hours lecture. Prerequisites: "C" or better in CHEM 108. Sp (Formerly 302)

Credit hours: 3
Level: Undergraduate
Activity Type: LEC
Maximum Hours To Be Earned: 3
Cross-Listed:
Beginning Term: 051
Offered Fixed

UNDERGRADUATE CURRICULUM MINUTES

Fixed/Variable:
Variable Range:
Abbreviated Course Intro Phys Chem
Title:

APPROVED

17. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: ADD new course CHEM 431 "Intermediate Organic" to the
 undergraduate catalog.

Laboratory introduction of standard research techniques; lecture covering synthetic design, functional group transformations, advanced nomenclature, and mechanistic analysis of reactions. One hour lecture; three hours laboratory. Prerequisites: "C" or better in CHEM 232 and 233. F (Formerly 405)

Credit hours: 2
Level: Undergraduate
Activity Type: LEC/LAB
Maximum Hours To
Be Earned: 2
Cross-Listed:
Beginning Term: 064
Offered
Fixed/Variable: Fixed
Variable Range:
Abbreviated Course
Title:

APPROVED

18. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: Change catalog content on pages 145, 146

Current Content:
CHEMISTRY
(CHEM)
Undergraduate Requirements

UNDERGRADUATE CURRICULUM MINUTES

Required for an American Chemistry Society Certified Concentration: Chemistry 107, 108, 109, 110, 301, 303, 304, 305, 306, 307, 308, 313, 314, 336, 401, 402, 403, 405, 407, 413 and 499. Total of 52 core semester hours. Students who have satisfactorily completed these courses which meet the requirements of the Committee on Professional Training of the American Chemical Society may receive certification to the American Chemical Society with the approval of the Department.

Required for a Non-ACS-Certified Concentration: Chemistry 107, 108, 109, 110, 301, 302, 303, 304, 305, 306, 307, 308, 313, 314, 336, 405, 407, 499 and 9 hours of specialty elective courses. Total of 52 core semester hours.

Required for a minor: 22 hours of chemistry to include Chemistry 107, 108, 109, and 110, plus 14 semester hours of chemistry courses above the freshman level at least 3 credit hours of which must be taken at ULM.

Required for a major in Secondary Education-Chemistry: Chemistry 107, 108, 109, 110, 303, 304, 305, 306, 307, 308, 313, 314, 336, and 337. Total of 32 semester hours. (See specific degree plan in the College of Education and Human Development section).

Required for a minor in Secondary Education-Chemistry: To include Chemistry 107, 108, 109, 110, 301, 303, 305, 307, 308, and one hour of elective. Total of 19 semester hours. University English and Mathematics competency requirements apply to all degrees. Some chemistry courses will include both a lecture and a recitation component. The recitation hour will consist of review and problem solving and may also include testing.

TRANSFER OF CHEMISTRY CREDIT FROM OTHER UNIVERSITIES TO ULM: Chemistry course offerings at most universities are fairly standardized. To facilitate transfer from area universities, the ULM Chemistry Office maintains a list of chemistry course equivalencies.

New Content:

CHEMISTRY (CHEM)

Undergraduate Requirements

Required for an American Chemistry Society Certified Concentration: Chemistry 107, 108, 109, 110, 230, 231, 232, 233, 240, 241, 301, 310, 320, 321, 322, 323, 350, 431, 407, 413 and 499. Total of 49 core semester hours. Students who have satisfactorily completed these courses which meet the requirements of the Committee on

UNDERGRADUATE CURRICULUM MINUTES

Professional Training of the American Chemical Society may receive certification to the American Chemical Society with the approval of the Department.

Required for a Non-ACS-Certified Concentration: Chemistry 107, 108, 109, 110, 220, 230, 231, 232, 233, 240, 241, 301, 310, 350, 431, 407, 499 and 8 hours of specialty elective courses. Total of 49 core semester hours.

Required for a minor: 22 hours of chemistry to include Chemistry 107, 108, 109, and 110, plus 14 semester hours of chemistry courses above the freshman level at least 3 credit hours of which must be taken at ULM.

Required for a major in Secondary Education-Chemistry: Chemistry 107, 108, 109, 110, 230, 231, 232, 233, 240, 241, 310, 350, and 352. Total of 31 semester hours. (See specific degree plan in the College of Education and Human Development section).

Required for a minor in Secondary Education-Chemistry: To include Chemistry 107, 108, 109, 110, 230, 231, 240, 241, 301, and one hour of elective. Total of 19 semester hours. University English and Mathematics competency requirements apply to all degrees. Some chemistry courses will include both a lecture and a recitation component. The recitation hour will consist of review and problem solving and may also include testing.

TRANSFER OF CHEMISTRY CREDIT FROM OTHER UNIVERSITIES

TO ULM: Chemistry course offerings at most universities are fairly standardized. To facilitate transfer from area universities, the ULM Chemistry Office maintains a list of chemistry course equivalencies.

Beginning Term: 054

APPROVED

19. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CLOSE and REMOVE CHEM308 Quantitative Analysis Laboratory from Chemistry Degree and from catalog.

UNDERGRADUATE CURRICULUM MINUTES

Level: Undergraduate
Beginning Term: 044

APPROVED

20. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CLOSE and REMOVE CHEM302 Introductory Physical
Chemistry from Chemistry and from catalog.
Level: Undergraduate
Beginning Term: 051

APPROVED

21. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CLOSE and REMOVE CHEM303 Organic Chemistry I from
Chemistry Degree and from catalog.
Level: Undergraduate
Beginning Term: 052

APPROVED

22. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CLOSE and REMOVE CHEM304 Organic Chemistry II from
Chemistry Degree and from catalog.
Level: Undergraduate
Beginning Term: 053

APPROVED

23. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CLOSE and REMOVE CHEM305 Organic Chemistry
UNDERGRADUATE CURRICULUM MINUTES

Level: Laboratory I from Chemistry Degree and from catalog.
Undergraduate
Beginning Term: 052

APPROVED

24. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CLOSE and REMOVE CHEM306 Organic Chemistry
Laboratory II from Chemistry Degree and from catalog.
Level: Undergraduate
Beginning Term: 053

APPROVED

25. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CLOSE and REMOVE CHEM307 Quantitative Analysis
from Chemistry and from catalog.
Level: Undergraduate
Beginning Term: 044

APPROVED

26. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CLOSE and REMOVE CHEM313 Descriptive Inorganic
Chemistry from Chemistry Degree and from catalog.
Level: Undergraduate
Beginning Term: 051

APPROVED

27. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CLOSE and REMOVE CHEM314 Physical/Inorganic
UNDERGRADUATE CURRICULUM MINUTES

Chemistry Laboratory from Chemistry Degree and from catalog.

Level: Undergraduate
Beginning Term: 051

APPROVED

28. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CLOSE and REMOVE CHEM336 Biochemistry I from Chemistry Degree and from catalog.
Level: Undergraduate
Beginning Term: 052

APPROVED

29. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CLOSE and REMOVE CHEM405 Intermediate Organic from Chemistry Degree and from catalog.
Level: Undergraduate / Graduate
Beginning Term: 054

APPROVED

30. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CLOSE and REMOVE CHEM402 Physical Chemistry II from Chemistry Degree and from catalog.
Level: Undergraduate / Graduate
Beginning Term: 051

APPROVED

UNDERGRADUATE CURRICULUM MINUTES

31. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CLOSE and REMOVE CHEM401 Physical Chemistry I from
Chemistry Degree and from catalog.
Level: Undergraduate / Graduate
Beginning Term: 044

APPROVED

32. THE DEPARTMENT OF CHEMISTRY requests:

Presenter: Dr. Harry Brotherton
Action: CLOSE and REMOVE CHEM337 Biochemistry I from
Chemistry Degree and from catalog.
Level: Undergraduate
Beginning Term: 051

APPROVED