

* The Board of Trustees has authorized only certain University officials to sign contracts on behalf of the University of South Carolina.
Please read University policy BTRU 1.04 Authority to Sian Contracts or the summary on the following page to insure compliance.
* This form is to be completed and two copies submitted with two\* copies of the proposed contract to the Office of General
Counsel, which is located in the Osborne Administration Building. The originating party should retain a copy of this form.

'Please submit three copies of the proposed contract if it has not yet been signed by the non-University entity.

1. college/department name: College of Engineering and Computing

Direct Contract Questions To: Jed S. Lyons Phone: (803) 777-9552

Retum To: Jed S Lyons Swearingen 1A00

Name Building Room Number

1. CONTRACT WITH:

Name: Columbia College

1. DESCRIPTION: (Goods and/or services to be procured, physical location, etc.)

This agreement describes the processes for establishing and maintaining equivalencies between courses offered at the
two institutions and for the advising of students. The goal is to maintain viable 3+2 pathways where students can spend 3
years at Columbia College and 2 years at USC and earn a Bachelors Degree from each institution.

6. CERTIFICATION OF REQUESTING PARTY:

I have read this contract entirely. I am satisfied with its description of the goods and services to be provided to the University (including, for example,
warranties, delivery terms, acceptance period, and maintenance terms). I am also satisfied with the description of the University’s obligations (including,
for example, payment due dates, late charges, tax charges, insurance, and confidentiality requirements) and all other provisions of this contract, except

as noted in any attached memorandum.

**/»/\*>/**

Date

*J J L*

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Jed S. Lyons

Signature (Sign original in blue ink)

Senior Associate Dean for Academic Affairs (803) 777-9552

Name

Title

Phone

7. CERTIFICATION OF DEPARTMENT HEAD:

I approve this contract. I am satisfied that it is consistent wi’

Purchasing Department. I have obtained ai

Hossein Haj-Hariri

Name

ients of the University

Dean

Title

(803) 777-7356

Phone

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| FIRST YEAR (Take at Columbia College) |
| **Fall Semester** |
| **Columbia College Course** | **USC Chemical Engineering Course** |
| LA 100 - First Year Experience 1: Strategies for Success | UNIV 001T for ECHE 101 |
| ENG 101 - Analytical Thinking, Writing, and Research | ENGL 101 - Critical Reading & Comp |
| BIO 110 - Foundations of Biology | Technical Elective BIOL 101 and 101L |
| CHEM 121- General Chemistry 1 | CHEM 111 and 111L |
| MATH 161-Calculus 1 | MATH 141-Calculus 1 |
| **Spring Semester** |
| **Columbia College Course** | **USC Chemical Engineering Course** |
| LA 110- First Year Experience II: Strategies for Inquiry |  |
| ENG 102 - Writing about Literature | ENGL 102 - Rhetoric and Composition |
| CHEM 122- General Chemistry II | CHEM 112 and 112L - General Chemistry II and Lab |
| CHEM 101- Science Seminar |  |
| MATH 162-Calculus II | MATH 142-Calculus II |
| COMM 100 - Introduction to Oral Communication | SPCH 140 - Public Communication |
| SECOND YEAR (Take at Columbia College) |
| Fa**ll Semester** |
| **Columbia College Course** | **USC Chemical Engineering Course** |
| CHEM 261- Organic Chemistry 1 | CHEM 333 and 333L - Organic Chemistry 1 and Lab |
| PHYS 221 - General Physics 1 | PHYS 211 and 211L Essentials of Physics 1 and Lab |
| Gen Ed - Social Sciences | GSS |
| LA 201 - Diversity, Gender and Social Justice | WGST 003T |
| Gen Ed- SPAN 122- Elementary Spanish II | GFL SPAN 110 - Beginning Spanish II |
| **Spring Semester** |
| **Columbia College Course** | **USC Chemical Engineering Course** |
| CHEM 262- Organic Chemistry II | CHEM 334 and 332L Organic Chemistry II and Essentials of |
|  | Org Chem Lab II |
| PHYS 222-General Physics II | PHYS 212 and 212L - Essentials of Physics II |
| CHEM 332- Analytical Chemistry | Chem Elec CHEM321 and 321L - Quant Analysis |
| Gen Ed- Aesthetic Literacy | AIU |
| Gen Ed - Religion or Philosophy |  |
| THIRD YEAR (Take at Columbia College) |
| **Fall Semester** |
| **Columbia College Course** | **USC Chemical Engineering Course** |
| CHEM 342- Biochemistry | Chem Elec & Lab Elec - CHEM 550 and 550L Biochemistry |
| CHEM 355- Physical Chemistry 1 | Technical Elec & Lab Elec CHEM 541 and 541L Physical Chemistry |
| LA 301 - Women, Leadership, and Social Change |  |
| MATH 262- Calculus III | MATH 241 Vector Calculus |
| Gen Ed - Multiculturalism |  |



**Transfer Pathway**

**Columbia College to MCEC USC Columbia**

**B.S. Chemistry and B.S.E. in Chemical Engineering**

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| **Spring Semester** |
| **Columbia College Course** | **USC Chemical Engineering Course** |
| CHEM 201- Senior Seminar |  |
| CHEM 356 - Physical Chemistry II | Technical Elec CHEM 542 and 542L Physical Chemistry |
| MATH 360 - Differential Equations | MATH 242 - Elem Differential Equations |
| Gen Ed - Literature |  |
| Gen Ed - History | GHS |
| FOURTH YEAR (Take at USC) |
| **Fall Semester** |
| **Columbia College Course** | **USC Chemical Engineering Course** |
| Elective | ECHE 300 Chemical Process Principles\* |
| CHEM elective | ECHE 310 Intro Chemical Engr Thermodynamics  |
| Elective | ECHE 320 Chemical Engr Fluid Mechanics |
|  | ECHE 456 Computational Methods Engr Apps |
|  | Computer Programming Elective |
|  | Engineering Elective |
| **Spring Semester** |
| **Columbia College Course** | **USC Chemical Engineering Course** |
| Elective | ECHE 311 Chemical Engineering Thermodynamics\*\* |
| Elective | ECHE 321 Heat Flow Analysis |
| CHEM elective | ECHE 430 Chemical Engr Kinetics  |
|  | ECHE 460 Chem Engr Lab 1 (Spring only) |
|  | Professional Development Elective |
| FIFTH YEAR (Take at USC) |
| **Fall Semester** |
| **Columbia College Course** | **USC Chemical Engineering Course** |
|  | ECHE 440 Separation Process Design (Fall only) |
|  | ECHE 461 Chem Engr Lab II (Fall only) |
|  | ECHE 465 Chemical Process Analysis and Design 1 (Fall only) |
|  | ECHE 550 Chem Proc Dynamics & Controls (Fall only) |
|  | Career Elective |
|  | PHIL 325 Engineering Ethics |
| **Spring Semester** |
| **Columbia College Course** | **USC Chemical Engineering Course** |
|  | ECHE 322 Mass Transfer (Spring only) |
|  | ECHE 466 Chemical Process Analysis and Design II (Spring |
|  | only) |
|  | ECHE 567 Process Safety, Health & Loss Prevention (Spring |
|  | only) |
|  | Engineering Elective |
|  | Technical Elective |

This Addendum displays Columbia College Courses completed with a "C" or higher that USC MCEC accepts as transfer credit in this transfer pathway.

Revised August 2025.

\*May substitute CHEM 541 for prerequisite of ECHE 300

\*\*May substitute CHEM 541 for prerequisite of ECHE 311