

ARTICULATION AGREEMENT
between

University of the Cumberland
and
Kentucky Community and Technical College System

In order to provide for a more seamless pathway for students completing the Associate of Applied Science degree in Computer Information Technology to move towards completion of the Bachelor's degree in Information Technology Sciences, University of the Cumberland (UC) and the Kentucky Community and Technical College System (KCTCS) enter into this Articulation Agreement

Upon successful completion of the Associate of Applied Science degree in Computer Information Technology from KCTCS, coursework will be applied towards the requirements of the Bachelor in Science degree in Information Technology Sciences from the School of Computer and Information Sciences at UC.

The general requirements for graduation from University of the Cumberland with the Bachelor of Science in Information Technology Sciences is the completion of at least 128 semester hours including:

- General education -37 hours
- Information Technology Sciences major -36 hours
- Minor/Area of Concentration in Information Technology Sciences -18 hours (minimum)
- General electives -37 hours

Specific course equivalencies for classes required for the Bachelor's degree Information Technology Sciences are provided below:

| Bachelor of Science in Information Technology Sciences (36 hours) | Course | KCTCS Course Equivalent |
|---|---|---------------------------------------|
| ITS Core (36 hours) | ITSS 130, Application Software | CIT 130, Productivity Software |
| | JTSS 131, Introduction to Object Oriented Programming 2 | CIT 143, C# |
| | ITSS 230, Fundamentals of Databases | CIT 170, Database Design Fundamentals |
| | ITSC 230, Information Security and Assurance | CIT 180, Security Fundamentals |

| | | |
|---|---|---|
| | ITSI 231, Hardware | CIT 111, Computer Hardware and Software |
| | JTSS 232, Web Design | CIT 155, Web Page Development OR CIT 157, Web Site Design and Production |
| | ITSI 331, Networking | CIT 160, Introduction to Network Concepts |
| | ITSI 336, Server Administration | CIT 215, Microsoft Server Administration |
| | ITSS 337, Business Intelligence | |
| | ITSS 438, Capstone | |
| ITS Elective Courses – 300/400 level (6 hours required. An additional 18 hours may be taken for an area of concentration) <i>Course options include:</i> | ITSC 330, Prevention and Protection Strategies in Cybersecurity | CIT 182, Perimeter Defense |
| | ITSC 331, Ethical Hacking | |
| | ITSS 332, Database Administration | |
| | ITSC 430, Information Security Management | |
| | ITSC 431, Legal and Ethics | |
| | ITSC 439, Capstone II: Cybersecurity | |
| | ITSI 332, Interconnecting Network Devices | |
| | ITSI 333, Data Center | |
| | ITSI 335, Cloud Computing | CIT 205, Cloud Infrastructure and Services |
| | ITSI 432, Routing and Switchin2 | CIT 167, Routing and Switching |
| | ITSI 433, Wireless | |
| | ITSI 439, Capstone II: Infrastructure | |
| | ITSM 334, Management Information Systems | CIT 231, Management Information Systems |
| | ITSS 333, Video Game Programming | CIT 276, 30 Game Development: Lam/ua2e |
| | ITSS 334, Web Programming | CIT 241, PHP II |
| | JTSS 338, Programming of Mobile Devices | |
| | ITSS 435, Software EmzineerinJZ | |
| | ITSS 439, Capstone II: Software Engineering | |

Areas of concentration include:

- Cybersecurity
- Infrastructure / Networking
- Management
- Software engineering

In addition to courses required for the major, students from KCTCS might transfer other courses to apply towards the general education requirements at UC. General education curriculum

areas from UC and course equivalents from KCTCS are identified in a previous Articulation Agreement between UC and KCTCS.

It should be noted that one of the general education classes will need to be a 300/400 level integrated studies course completed at UC. KCTCS course equivalences for courses in the general education core are outlined below:

| General Education Requirements (37 hours) | University of the Cumberland's General Education Requirement | KCTCS Equivalent |
|---|---|--|
| Christian Faith (6 hours) | MSMN135, Exploring the Old Testament MSMN136, Exploring the New Testament MSMN 133, Church History MSMN 233, Introducing Christian Ethics MSMN 239, Exploring World Religions | REL 120, Introduction to the Old Testament REL 121, Introduction to New Testament REL 130, Introduction to Comparative Religion |
| Writing Competence (6 hours) | ENGL131, English Composition I ENGL132, English Composition II | ENG 101, Writing I ENG 102, Writing II |
| Mathematics (3 hours) | MATH131, College Math (or higher) | MT 150, College Algebra (or higher) |
| Science (4 hours) | BIOL 130/110, General Biology w/ Lab BIOL 133/113, Introduction to Population Biology w/ Lab BIOL 134/114, Introduction to Cellular Biology w/ Lab BIOL 231/116, Environmental Science w/ Lab CHEM 132/111 General Chemistry w/ Lab CHEM 140, Chemistry of Everyday Life PHYS 137/ 117, Physical Science w/ Lab PHYS 140, Astronomy PHYS 241, Physics I | AST 191/195, The Solar System w/ Lab BIO 112/113, introduction to Biology w/ Lab BIO 120/121, Human Ecology w/ Lab BIO 224, Introduction to Molecular and Cell Biology CHE 140/145, Introductory General Chemistry w/ Lab CHE 120/125, The Joy of Chemistry w/ Lab PHY 201/202, College Physics I w/ Lab |
| History (3 hours) | HIST13B - World Civilization since 16'8 HIST231 - American History to 1877 | HIS 108, History of the United States through 1865 HIS 109, History of the United States since 1865 |
| Cultural Understanding (3 hours) | BADM135, Macroeconomics BADM136, Microeconomics FREN 135, French Popular Culture SPAN 135, Hispanic Popular Culture POLS 131, Introduction to Political Science POLS 233, American National Government POLS 235, Introduction to International Relations PSYC 131, Basic Psychology | ECO 201, Macroeconomics ECO 202, Microeconomics SPA 115, Hispanic Culture POL 101, American Government PSY 110, General Psychology |
| Aesthetic Appreciation (6 hours) | Two departments represented from: ART 131, Art Appreciation ART 132, Ancient to Gothic Art ART 133, Renaissance to Modern Art ART 134, Drawing I ENGL 330, Literary Studies ENGL 331, English Literature through 1660 ENGL 332, English Literature 1660-1830 | ART 105, Ancient through Medieval Art History ART 106, Renaissance through Modern Art History ART 203, Renaissance Art History ART 204, Modern Art History ART 110, Drawing I ENG 161, Introduction to Literature |

| General Education Requirements (37 hours) | University of the Cumberland's General Education Requirement | KCTCS Equivalent |
|---|---|---|
| Aesthetic Appreciation (continued) | ENGL 333, English Literature since 1830 ENGL 334, American Literature through 1865 ENGL 335, American Literature since 1865 MUPR 108-112, 114-116, 119, Music Ensemble or Band MUSC 130, Music Appreciation THTR 130, Introduction to Theatre | ENG 221, Survey of English Literature I ENG 222, Survey of English Literature II ENG 251, Survey of American Literature I ENG 252, Survey of American Literature II MUS 100, Intro to Music THA 101, Intro to Theatre: Principles and Practice |
| Social & Professional Awareness (6 hours) | Two departments represented from: JTSS 130, Introduction to Application Software COMM 130, Introduction to Interpersonal Communications COMM 131, Introduction to Mass Media COMM 230, Introduction to Public Speaking JOUR 130, Introduction to Journalism & PR HLTH 236, Health & Wellness SOCJ 131, Introduction to Sociology CRJS 131, Introduction to Criminal Justice HSRV 131, Survey of Human Services | CJS 130, Microcomputer Applications COM 181, Basic Public Speaking COM 252, Introduction to Interpersonal Communications KHP 230, Human Health and Wellness SOC 101, Introduction to Sociology CRJ 100, Introduction to Criminal Justice HMS 101, Human Services Survey |

The degree completed by students from KCTCS is the Bachelor of Science in Information Technology Sciences through the School of Computer and Information Sciences at UC. Each student seeking the baccalaureate degree must have scores from an appropriate department examination in the Office of the Registrar prior to completion of the student's degree.

As a part of the requirements for the Bachelor's degree, a minimum of 36 semester hours numbered 300 or above are required for graduation. As a part of this agreement, 12 hours of 200-level credit courses can be transferred and applied towards the 300-level information technology courses at UC. While these courses apply to the Information Technology Sciences core, they will not be counted as 300/400 level coursework.

The academic advisor assigned to the student at the time of their admission to the Online Program will work with the student to develop a planned program that lists the courses completed/transferred and a list of courses to be completed. As a part of this process, the academic advisor will also develop the planned program to ensure that a minimum of 36 semester

hours numbered 300 or above are identified. The planned program will be submitted to the Chair of the School of Computer and Information Sciences and the Registrar for approval. The approved copy of the planned program is forwarded to the student. Current planned programs for the Associate degree in Computer and Information Technology from KCTCS and the Bachelor degree in Information Technology Sciences at UC are included in the Appendix of this Agreement.

Other degree requirements that impact students in the Information Technology Sciences program are provided below:

- 1) The student must have a 2.0 grade point average on all classes taken.
- 2) All courses in the major or an area of concentration must have a grade of "C" or higher. Students earning a grade of "O" in a course in his/her major must repeat the course or the department head may select a substitute course.
- 3) A candidate for graduation must have earned 30 of the last 36 hours at the University of the Cumberlands.
- 4) At least 25 (twenty-five) percent of the total semester hours in any degree requirement must be completed at University of the Cumberlands.



A complete list of degree requirements is provided in the Undergraduate Catalog and Student Handbook available online at www.ucumberlands.edu.

As an extension of this pathway, students completing the Bachelor of Science in Information Technology Sciences would be eligible to further their education at the graduate level with the School of Computer and Information Sciences' Master of Information Security Program. This 30-hour MSIS Program can be completed in 18 months using the following course completion plan:

| 1st Semester-Fall | 2nd Semester - Spring | 3rd Semester-Summer | Final Semester - Fall |
|--|---|--|---|
| SOL 531 (3 hour) Access Control | SOL 534 (3 hour) Application Security | SOL 631 (3 hour) Operations Security | ISOL 633 (3 hour) Legal Regulations, Compliance, and Investigation |
| SOL 532 (3 hour) Telecommunications and Network Security | SOL 535 (3 hour) Cryptography | ISOL 632 (3 hour) Business Continuity Planning and Disaster Recovery Planning | SOL 634 (3 hour) Physical Security |
| ISOL 533 (3 hour) Information Security and Risk Management | SOL 536 (3 hour) Security Architecture and Design | | ISOL 699 (1 hour) Information Security Project |
| 9 hours | 9 hours | 6 hours | 7 hours |

This Agreement shall become effective upon signature of both parties. The Articulation Agreement may be terminated by either party provided written notice of intent to do so has been provided at least one year in advance. Any revisions to this Agreement must be in writing and acknowledged by both parties.


 Jay Box, President
 Kentucky Community and Technical College System
 Date: 9/2/17

 
 Barbara Kennedy, Vice President for Academic Affairs
 University of the Cumberlands
 Date: 9/1/17

