### UNIVERSITY OF ARKANSAS SYSTEM *e*VERSITY

### PROPOSAL FOR NEW DEGREES IN THE AREA OF INFORMATION TECHNOLOGY

**1. PROPOSED PROGRAM TITLES:**

Certificate of Proficiency: Information Technology

Technical Certificate: Information Technology

Associate of Applied Science: Information Technology

Bachelor of Applied Science: Information Technology

Associate of Science: Information Technology

Bachelor of Science: Information Technology

**2.**  **PROPOSED STARTING DATE**

October 2015

**3. CONTACT PERSON**

Dr. Michael K. Moore

Vice President for Academic Affairs

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**4. PROGRAM SUMMARY**

The proposed degrees provide two pathways for students to earn information technology related credentials. One pathway is created around the workforce focused credentials of a Certificate of Proficiency, Technical Certificate, Associate of Applied Science and Bachelor of Applied Science. A second pathway is a more traditional academic pathway including an Associate of Science and Bachelor of Science degree. No course work is lost as students move from one credential to the next. Many courses are shared between the workforce and academic pathways. The proposed credentials will provide students with a deep understanding of information technology related skills and will prepare students to pursue careers in information technology related industries.

**5**. **FACULTY**

University of Arkansas System faculty will develop and teach the courses. All proposed courses exist at one or more UA System institution insuring sufficient available faculty.

**6. INSTRUCTION BY DISTANCE TECHNOLOGY**

The degrees included in this proposal will be delivered in a 100% distance education format.

**7. CURRICULUM**

**Certificate of Proficiency: Information Technology (16 hours)**

**Technical Certificate: Information Technology (34 hours)**

(Certificate of Proficiency + 18 hours)

**Associate of Applied Science: Information Technology (61 hours)**

(Certificate of Proficiency + Technical Certificate + 27 hours)

**Bachelor of Applied Science: Information Technology (120 hours)**

(Certificate of Proficiency + Technical Certificate + Associate of Applied Science + 59 hours)

| Degree | Course Number | Course Name | Hours | Representative Crosswalk Course Numbers at UA System Institutions |
| --- | --- | --- | --- | --- |
| Certificate of Proficiency (61 hrs) | EVSY 1001 | University Success Seminar | 1 | EDGE 1003 (UACCH) |
|  | CPSI 1003 | Intro to Computers | 3 | CT 114 (PCCUA), CIS 1053 (UACCB), CISS 1013 (UACCH), CPSC 1175 (UALR), CFA 1103 (UAM), CIS 2223 (UAM) |
|  | NTWR 1003 | Networking Essentials | 3 | CT 173 (PCCUA), NT 123 (PCCUA), CIS 2214 (UACCB), CISS 2303 (UACCH), IFSC 3315 (UALR), CS 1043 (UAFS) |
|  | ENGL 1013 | English Comp | 3 | ENGL 1113 (CCCUA), ENG 1013 (UACCM), ENGL 1013 (UAM) |
|  | PHIL 1003 | Logic and Critical Thinking | 3 | PHIL 2350 (UALR) |
|  | PLSC | US Government and Society | 3 | PSCI 2003 (CCCUA), PSCI 2003 (UACCM), POLS 2753 (UAFS), PSCI 2213 (UAM), POLS 1310 (UALR) |
| Technical Certificate (CP + 18 hrs) | CPSI 1403 | Operating Systems I | 3 | NT 143 (PCCUA), CISS 1703 (UACCH), CISS 1903 (UACCH), CIS 2223 (UACCB), IFSC 2305 (UALR), CSCE 3613 (UAF), CS 1033 (UAFS) |
|  | CPSI 1103 | Computer Maintenance | 3 | NT 193 (PCCUA), NT 133 (PCCUA), CISS 1804 (UACCH) |
|  | CPSI 1203 | Database Foundations | 3 | CIS 2063 (UACCB), CT 273 (PCCUA), CISS 2223 (UACCH), CPSC 3375 (UALR), CDCE 4523 (UAF), CIS 3233 (UAM), CS 2013 (UAFS) |
| Degree | Course Number | Course Name | Hours | Representative Crosswalk Course Numbers at UA System Institutions |
|  | CPSI 1413 | Foundations of Programming | 3 | CIS 2153 (UACCB), CT 164 (PCCUA), CISS 2103 (UACCH), CPSC 1375 (UALR), CSCE 2004 (UAF), CS 1013 (UAFS) |
|  | MATH 1113 | Quantitative Literacy | 3 | MATH 1321 (UALR) |
|  | ENGL 2023 | Technical Writing | 3 | ENG 1003 (UACCM), ENGL 3253 (UAM), RHET 1312 (UALR), ENGL 1023 (UAF), ENGL 1213 (UAFS) |
| **Associate of Applied Science (CP + TC + 27 hrs)** | NTWR 2003 | Networking II | 3 | CIS 2224 (UACCB), NT 173 (PCCUA), CMP 2604 (UAM) |
|  | NTWR 2013 | Networking III | 3 | CMP 2054 (UAM) |
|  | CPSI 2413 | Programming II | 3 | CPSC 2376 (UALR), CSCE 2014 (UAF), CS 1023 (UAFS) |
|  | CPSI 2103 | Foundations of Information Assurance | 3 | NT 213 (PCCUA), CISS 2233 (UACCB) |
|  | MATH 2103 | Statistics | 3 | STAT 3352 (UALR), G B 2113 (UAM) |
|  | NTWR 2103 | Network Defense | 3 | CSCE 4853 (UAF), CIS 4253 (UAM), CS 4503 (UAFS) |
|  | CPSI 2523 | Web Applications | 3 | CIS 2253 (UACCB), CIS 2413 (UACCB), CISS 1503 (UACCH), CT 233 (PCCUA) |
| Degree | Course Number | Course Name | Hours | Representative Crosswalk Course Numbers at UA System Institutions |
|  | CPSI 2513 | Web Analytics | 3 | IFSC 3300 (UALR) |
|  | PHIL 2003 | Professional Ethics | 3 | MGMT 2200 (UAPB) |
| **Bachelor of Applied Science (CP + TC + AAS + 59 hrs)** | CPSI 3403 | Operating Systems II | 3 | CMP 2404 (UAM) |
|  | CPSI 3513 | Web Content Management Systems | 3 | CS 2033 (UAFS) |
|  | CPSI 4023 | Information Systems Management | 3 | MGMT 4613 (UAM) |
|  | CPSI 4003 | Computer Forensics | 3 | CS 3523 (UAFS) |
|  | CPSI 3103 | Data Warehousing | 3 | CSCE 4523 (UAF), CS 3313 (UAFS) |
|  | CPSI 3203 | Data Mining | 3 | CSCE 3313 (UAF) |
|  | CPSI 3303 | Data Analytics | 3 | IFSC 3360 (UALR), CSCE 4263 (UAF), CS 4323 (UAFS) |
|  | CPSI 4123 | Legal Issues in Information Technology | 3 | IFSC 2200 (UALR), CIS 4263 (UAM) |
| Degree | Course Number | Course Name | Hours | Representative Crosswalk Course Numbers at UA System Institutions |
|  | CPSI 4113 | IT Security Cryptography | 3 | CSCE 4433 (UAF), CS 3503 (UAFS), CS 3513 (UAFS) |
|  | CPSI 4013 | Game Design | 3 | CS 3143 (UAFS), CS 3153 (UAFS) |
|  | CPSI 3423 | Mobile App Development | 3 | CSCE 4623 (UAF), CS 4103(UAFS) |
|  | NTWR 3003 | Wireless Networking | 3 | CS 4203 (UAFS) |
|  | CPSI 3013 | Systems Analysis and Design | 3 | CIS 3523 (UAM), CS 4003 (UAFS) |
|  | CPSI 4403 | Capstone Project | 3 | CSCE 4561 (UAF), CS 4023 (UAFS), CPSC 4392 (UALR) |
|  | BIOL 1014 | Life Science I | 4 | BIOL 1014 (CCCUA) |
|  | BIOL 1114 | Life Science II | 4 | BIOL 1114 (CCCUA) |
|  | PSYC 1103 | Intro to Psychology | 3 | PSYC 2003 (CCCUA), PSY2003 (UACCM), PSY1163 (UAFS), PSY1013 (UAM) |
|  | SOCI 1013 | Intro to Sociology | 3 | SOC2003 (CCCUA), SOCI2753 (UAFS), SOC2213 (UAM) |
| Degree | Course Number | Course Name | Hours | Representative Crosswalk Course Numbers at UA System Institutions |
|  | ECON 2103 | Macroeconomics | 3 | ECON 2003 (CCCUA), ECON2323 (UALR), ECON2013 (UAF), ECON 2803 (UAFS), ECON2003 (UACCH), ECON 2203 (UAM) |

**Associate of Science: Information Technology (60 hours)**

**Bachelor of Science: Information Technology (120 hours)**

(Associate of Science + 60 hours)

| Degree | Course Number | Course Name | Hours | Representative Crosswalk Course Numbers at UA System Institutions |
| --- | --- | --- | --- | --- |
| **Associate of Science (60 hrs)** | EVSY 1003 | University Success Seminar | 1 |  |
|  | BIOL 1014 | Life Science I | 4 | BIOL 1014 (CCCUA) |
|  | BIOL 1114 | Life Science II | 4 | BIOL 1114 (CCCUA) |
|  | PSYC 1103 | Intro to Psychology | 3 | PSYC 2003 (CCCUA), PSY2003 (UACCM), PSY1163 (UAFS), PSY1013 (UAM) |
| Degree | Course Number | Course Name | Hours | Representative Crosswalk Course Numbers at UA System Institutions |
|  | SOCI 1013 | Intro to Sociology | 3 | SOC2003 (CCCUA), SOCI2753 (UAFS), SOC2213 (UAM) |
|  | ECON 2103 | Macroeconomics | 3 | ECON 2003 (CCCUA), ECON2323 (UALR), ECON2013 (UAF), ECON 2803 (UAFS), ECON2003 (UACCH), ECON 2203 (UAM) |
|  | ENGL 1013 | English Comp | 3 | ENGL 1113 (CCCUA), ENG 1013 (UACCM), ENGL 1013 (UAM) |
|  | PHIL 1003 | Logic and Critical Thinking | 3 | PHIL 2350 (UALR) |
|  | PLSC | US Government and Society | 3 | PSCI 2003 (CCCUA), PSCI 2003 (UACCM), POLS 2753 (UAFS), PSCI 2213 (UAM), POLS 1310 (UALR) |
|  | MATH 1113 | Quantitative Literacy | 3 | MATH 1321 (UALR) |
|  | ENGL 2023 | Technical Writing | 3 | ENG 1003 (UACCM), ENGL 3253 (UAM), RHET 1312 (UALR), ENGL 1023 (UAF), ENGL 1213 (UAFS) |
|  | PHIL 2003 | Professional Ethics | 3 | MGMT 2200 (UAPB) |
|  | CPSI 1003 | Intro to Computers | 3 | CT 114 (PCCUA), CIS 1053 (UACCB), CISS 1013 (UACCH), CPSC 1175 (UALR), CFA 1103 (UAM), CIS 2223 (UAM) |
| Degree | Course Number | Course Name | Hours | Representative Crosswalk Course Numbers at UA System Institutions |
|  | CPSI 1403 | Operating Systems I | 3 | NT 143 (PCCUA), CISS 1703 (UACCH), CISS 1903 (UACCH), CIS 2223 (UACCB), IFSC 2305 (UALR), CSCE 3613 (UAF), CS 1033 (UAFS) |
|  | CPSI 1413 | Foundations of Programming | 3 | CIS 2153 (UACCB), CT 164 (PCCUA), CISS 2103 (UACCH), CPSC 1375 (UALR), CSCE 2004 (UAF), CS 1013 (UAFS) |
|  | NTWR 1003 | Networking Essentials | 3 | CT 173 (PCCUA), NT 123 (PCCUA), CIS 2214 (UACCB), CISS 2303 (UACCH), IFSC 3315 (UALR), CS 1043 (UAFS) |
|  | CPSI 2523 | Web Applications | 3 | CIS 2253 (UACCB), CIS 2413 (UACCB), CISS 1503 (UACCH), CT 233 (PCCUA) |
|  | CPSI 1203 | Database Foundations | 3 | CIS 2063 (UACCB), CT 273 (PCCUA), CISS 2223 (UACCH), CPSC 3375 (UALR), CDCE 4523 (UAF), CIS 3233 (UAM), CS 2013 (UAFS) |
|  | CPSI 2103 | Foundations of Information Assurance | 3 | NT 213 (PCCUA), CISS 2233 (UACCB) |
|  | MATH 2103 | Statistics | 3 | STAT 3352 (UALR), G B 2113 (UAM) |
| Bachelor of Science (AS + 60 hrs) | NTWR 2003 | Networking II | 3 | CIS 2224 (UACCB), NT 173 (PCCUA), CMP 2604 (UAM) |
|  | NTWR 2013 | Networking III | 3 | CMP 2054 (UAM) |
| Degree | Course Number | Course Name | Hours | Representative Crosswalk Course Numbers at UA System Institutions |
|  | CPSI 2413 | Programming II | 3 | CPSC 2376 (UALR), CSCE 2014 (UAF), CS 1023 (UAFS) |
|  | CPSI 3313 | Management Information Systems | 3 | CSCE 3613 (UAF), CS 2023 (UAFS) |
|  | CPSI 4363 | E-Commerce | 3 | GB 4363 (UAM), MKTG 3043 (UAFS) |
|  | CPSI 3413 | Decisions Support Systems | 3 | MGMT 3913 (UAFS) |
|  | CPSI 3403 | Operating Systems II | 3 | CMP 2404 (UAM) |
|  | CPSI 3513 | Web Content Management Systems | 3 | CS 2033 (UAFS) |
|  | CPSI 4023 | Information Systems Management | 3 | MGMT 4613 (UAM) |
|  | CPSI 4003 | Computer Forensics | 3 | CS 3523 (UAFS) |
|  | CPSI 3103 | Data Warehousing | 3 | CSCE 4523 (UAF), CS 3313 (UAFS) |
|  | CPSI 3203 | Data Mining | 3 | CSCE 3313 (UAF) |
| Degree | Course Number | Course Name | Hours | Representative Crosswalk Course Numbers at UA System Institutions |
|  | CPSI 3303 | Data Analytics | 3 | IFSC 3360 (UALR), CSCE 4263 (UAF), CS 4323 (UAFS) |
|  | CPSI 4123 | Legal Issues in Information Technology | 3 | IFSC 2200 (UALR), CIS 4263 (UAM) |
|  | CPSI 4113 | IT Security Cryptography | 3 | CSCE 4433 (UAF), CS 3503 (UAFS), CS 3513 (UAFS) |
|  | CPSI 4013 | Game Design | 3 | CS 3143 (UAFS), CS 3153 (UAFS) |
|  | CPSI 3423 | Mobile App Development | 3 | CSCE 4623 (UAF), CS 4103(UAFS) |
|  | NTWR 3003 | Wireless Networking | 3 | CS 4203 (UAFS) |
|  | CPSI 3013 | Systems Analysis and Design | 3 | CIS 3523 (UAM), CS 4003 (UAFS) |
|  | CPSI 4403 | Capstone Project | 3 | CSCE 4561 (UAF), CS 4023 (UAFS), CPSC 4392 (UALR) |

**8. Faculty Approval**

The proposed credentials were developed by a team of UA System faculty members consisting of:

Carolyn Alexander (PCCUA), Tosha Bradley (UACCH), Matt Critcher (UACCB), Bryan Fendley (UAM), Lori Gibbons (UACCM), Rick Massengale (UAFS), and Karen Smith (UAMS). The proposed credentials were unanimously approved by the University of Arkansas System *e*Versity Academic Governance Council.