



**Bachelor of Science in Computer Information Systems**

**STUDENT DATA:**

**NAME:** Jonathan Sample

**ID:** SYS-312679580

	<b>Credit Required</b>	<b>Potential Credit</b>
<b>English Composition I (ENGL 111)</b>	3.00	3.00

Columbia College accepts the CLEP General Examination in English composition at the minimum ACE recommended score and does not require the essay version. They award 6 semester hours of credit for the exam: 3 sh in English Composition I and 3 sh in general electives. Visit the CC website for a description of this course.

ENGL 101 Introduction to Writing	University of Maryland- University College	LL	3.00
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	<b>Credit Required</b>	<b>Potential Credit</b>
<b>English Composition II (ENGL 112)</b>	3.00	3.00

Continued practice of the process of argumentative academic writing, applied to literary texts and culminating in a research paper. Students who do not earn a grade of C or higher must reenroll in ENGL 112 the succeeding term. Prerequisite: grade of C or higher in ENGL 111, or placement by ACT English Score or by SAT Writing Score: students whose ACT English Score is from 30 to 36 or whose SAT Writing Score is from 660 to 800 will be placed in ENGL 112. G.E. Offered Fall and Spring.  
{DANTES Code = 11.07.00}

ENGL 102 Composition and Literature	University of Maryland- University College	LL	3.00	
		<b>Credit Required</b>	<b>Potential Credit</b>	
<b>Business Ethics or Ethics (MGMT 368 or PHIL 330)</b>		3.00	3.00	
<p>Analysis of principles used to evaluate ethical issues facing today's business community as well as to formulate possible solutions. This course satisfies the General Education Ethics requirement for Business Administration and Computer Information Systems majors. Prerequisite: MGMT 330. OR Examination of various moral philosophers' attempts to prescribe ethical norms applicable to all mankind. Prerequisite: Junior standing.</p>				
DANT-0018 Ethics in America	DSST		UL	3.00
		<b>Credit Required</b>	<b>Potential Credit</b>	
<b>College Algebra (MATH 150)</b>		3.00	3.00	
<p>Fundamental algebraic concepts are examined in the context of real world applications. Linear, quadratic, polynomial, exponential, and logarithmic functions are explored with emphasis on their numerical, graphical, and algebraic properties. Prerequisite: Grade of C or higher in MATH 106 OR a score of 21 or higher on the math portion of the ACT (or if the ACT was taken before September 1989, a score of 20) OR a score of 500 or higher on the math portion of the SAT OR a passing score on the Columbia College math placement exam.</p>				
MATH 107 College Algebra	University of Maryland- University College		LL	3.00
		<b>Credit Required</b>	<b>Potential Credit</b>	
<b>Introduction to Computer Information Systems (CISS 170)</b>		3.00	3.00	
<p>Overview of computer hardware, software, programming, and information systems as applied in the modern business environment. Hands-on applications of word processing, spreadsheet, and data management software are used to explore the use of the microcomputers in business. {DANTES Code = 05.02.00}</p>				
Computer systems and applications	AR-1402-0168		LL	3.00
		<b>Credit Required</b>	<b>Potential Credit</b>	
<b>Introduction to Speech (COMM 110)</b>		3.00	0	

This course introduces students to basic skills necessary to function effectively in public communication situations, including informative and persuasive speaking. In addition, the students will develop abilities to analyze and evaluate oral discourse as a means of becoming informed consumers of communication. G.E. (College credit by examination may apply.)  
 {DANTES Code = 04.10.00}

	<b>Credit Required</b>	<b>Potential Credit</b>
<b>History Electives</b>	6.00	3.00

(For those students who transfer in with less than 36 semester hours, either US History I & II or Western Civilization I & II must be taken. For those students who transfer in with more than 36 semester hours must take two of the following: U.S. History I & II or Western Civilization I & II, of which one must be a Western Civilization course. College credit by examination may apply. Please visit the Columbia College catalog for a list of available courses.)

HIST 156 History of the United States to 1865	University of Maryland- University College	LL	3.00
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	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Social Science Electives</b>	6.00	3.00

(Must include two of the following areas: economics, geography, political science, psychology and sociology. College credit by examination may apply. Please visit the Columbia College catalog for a list of available courses.)

{DANTES Code see 20.XX.XX series}

TA014 GENERAL PSYCHOLOGY	Clep Subject	LL	3.00
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	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Specific Arts, Humanities Electives (must be a literature course)</b>	6.00	0

(Must include two of the following areas: art history or appreciation, speech, language, literature, music history or appreciation, philosophy or religion. College credit by examination may apply. Please visit the Columbia College catalog for a list of available courses.)

{DANTES Code = 08.06.00 or most 08.XX.XX series}

	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Natural Science / Mathematics Electives</b>	5.00	0

(May take two science lectures OR one science lecture and one Math lecture OR one science lecture and associated lab totaling at least 5 sh. Choices include Statistics, Calculus 1, Introduction to Astronomy, Principles of Biology and Lab,

Chemistry I and Lab, Introduction to Environmental Science and Lab, Introduction to Geology, College Physics I and Lab, Physical Science Survey and Lab. College credit by examination may apply. Please visit the Columbia College catalog for a list of available courses.)

{DANTES Code = 14.09.00 or 14.09.06 or 14.04.00 or 14.04.01 or 16.13.00 or 16.99.00 or most 16.XX.XX series}

	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Programming I (CISS 241)</b>	3.00	0
<p>Program design and development using C++. A disciplined approach to problem solving and algorithm development will be stressed using top-down design. Topics include syntax and semantics, input/output, selection, iterative constructs, functions, data types and recursion. Prerequisites: MATH 150, CISS 170.</p>		
	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Programming II (CISS 242)</b>	3.00	0
<p>A continuation of CISS 241. Topics include strings, pointers, recursion, classes, methods, and operator overloading. Prerequisite: Grade of C or higher in CISS 241.</p>		
	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Programming III (CISS 243)</b>	3.00	0
<p>A continuation of CISS 242. Topics include inheritance, polymorphism, templates, stream I/O, file processing, stacks, queues and lists. Prerequisite: Grade of C or higher in CISS 242.</p>		
	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Systems Analysis &amp; Design I (CISS 280)</b>	3.00	0
<p>The first in a two-course sequence (see CISS 320). Explores requirements and methods for documenting and analyzing existing business information systems; includes investigation and development of alternative solutions. Prerequisite: CISS 234 or CISS 238 or CISS 241.</p>		
	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Systems Analysis &amp; Design II (CISS 320)</b>	3.00	0
<p>A continuation of CISS 280. Explores the design and implementation of information systems, selection of alternatives, object-oriented design techniques and ISO 9001 software quality assurance mechanisms. Prerequisite: CISS 280 with a grade of C or higher.</p>		

	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Advanced Algorithms and Data Structures (CISS 350)</b>	3.00	0
<p>Advanced concepts of data, storage, organization and retrieval. Topics include multiple-linked lists, balanced trees, graphs, abstract data types, classes and methods, object-oriented programming, searching and sorting. Prerequisite: CISS 245 or CISS 243.</p>		
	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Computer Systems and Assembly Language (CISS 360)</b>	3.00	0
<p>(May take two science lectures OR one science lecture and Introduction to the fundamental concepts of computer systems including data representation, computer arithmetic, Boolean algebra, SSI Logic Design, register-transfer and micro-operations, computer organization, assemblers and assembly language programming. Prerequisite: CISS 245 or CISS 243.</p>		
	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Introduction to Database Systems (CISS 430)</b>	3.00	0
<p>Design and implementation of relational and object-oriented database systems. Relational algebra, normal forms and normalization, query processing, efficiency and security considerations. Prerequisite: CISS 285 or CISS 280.</p>		
	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Senior Seminar in Computer Information Systems (CISS 493)</b>	3.00	0
<p>Culminating course required for Computer Information System (CIS) majors. Readings from the current literature. Requires original research project and paper. Grade of C or higher required. This course includes a program evaluation component. Prerequisites: CISS 325 (or CISS 320), CISS 350, CISS CISS 360, CISS 430 and senior standing.</p>		
	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Accounting I (ACCT 280)</b>	3.00	0
<p>Introduction to the principles and concepts of accounting and the application of procedures relating to the complete accounting cycle. Preparation of financial statements for sole proprietorships, partnerships, and corporations is emphasized. Prerequisites: Sophomore standing; MGMT 150 and MGMT 152 highly recommended. A grade of C or higher is highly recommended before progressing to ACCT 281.</p>		

	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Accounting II (ACCT 281)</b>	3.00	0

Application of procedures relating to transactions affecting corporations. Interpretation of financial statements for managerial purposes is emphasized. Prerequisite: ACCT 280 (grade of C or higher in ACCT 280 is highly recommended).

	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Business Finance (FINC 350)</b>	3.00	0

A study of the finance function in corporate decision-making. Topics include financial statement analysis, risk and return, valuation, cost of capital, working capital management, the time value of money, and capital budgeting. Prerequisites: ACCT 281; MATH 150 or MATH 170.

	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Statistics I (MATH 250)</b>	3.00	0

Introduction to descriptive and inferential statistics. Topics include collection of data, numerical and graphical descriptive methods, linear correlation and regression, probability concepts and distributions, confidence intervals, and hypothesis testing for means and proportions. Prerequisite: MATH 150 or MATH 170 or MATH 180 or MATH 201. G.E.

	<b>Credit Required</b>	<b>Potential Credit</b>
<b>Principles of Management (MGMT 330)</b>	3.00	0

Survey of principles of management. Familiarity with the history and evolution of the field and with modern principles and their application. Prerequisites: MGMT 150, junior standing.

	<b>Credit Required</b>	<b>Potential Credit</b>
<b>CISS Elective Course Requirements</b>	18.00	15.00

Students may select the following course options:

(CISS 145 Introduction to Python Programming -OR- CISS 234

Visual Basic -OR- CISS 236 COBOL Programming -OR- CISS 238 Java Programming)

(CISS 301 Operating Systems for Business Computing -OR- CISS 370 Operating Systems)

(CISS 302 Business Data Communications and Networking -OR- CISS 410 Computer Networks and Communications)

CISS 375 Compiler Construction

CISS 380 Computer Graphics

CISS 390 Global Information Systems Management

CISS 391 Information Systems Security  
 CISS 420 Computer Architecture  
 CISS 433 Topics in Information Systems  
 CISS 438 Object-Oriented Analysis & Design  
 CISS 445 Programming Languages  
 CISS 450 Artificial Intelligence  
 CISS 465 Software Engineering  
 CISS 472 Data Warehousing and Decision Support Systems  
 CISS 499 Internship

Please visit the Columbia College Catalog for a description of each course.

Computer network fundamentals	AR-1402-0168	LL	3.00	
CMIS 270 Intro Computer Systems and Architecture	University of Maryland- University College	LL	3.00	
Computer operating systems	AR-1402-0168	LL	3.00	
Digital communications systems	AR-1402-0168	LL	3.00	
Information security management	AR-1402-0168	LL	3.00	
		<b>Credit Required</b>		<b>Potential Credit</b>
<b>Free Electives</b>		19.00		10.00

(College credit by examination may apply. Visit the CC website for a description of courses.)

PC Maintenance and Repair	AR-1402-0168	LL	3.00
First aid	AR-2201-0399	LL	1.00
Marksmanship	AR-2201-0399	LL	1.00
Military science	AR-2201-0399	LL	2.00
Physical conditioning	AR-2201-0399	LL	2.00
Security management	NATL-IRS-5052	UL	1.00

**Excess or Duplicate Credit**

<b>TOTAL</b>		120.00	46.00
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Thank you for using Degree Quest, the state-of-the-art degree exploration system that digitally connects you to hundreds of colleges and universities offering thousands of degrees on campus or at a distance from Associate's degrees to Ph.D's. This document is an UNOFFICIAL Degree Plan to provide you with a preliminary projection of how your prior learning experiences may fit into the specified degree program for this academic institution. If you choose to pursue this degree option, you must have official transcripts sent to this institution on admission, after which they will make the final decision on your student status.

**ACCEPTANCE OF CREDIT:**

The acceptance of the transfer of credit is at the sole discretion of this institution. It is up to the pending academic review by the registrar to verify and validate the courses, the transferability of the courses, and the placement of the courses within the chosen degree plan.

#### ACCEPTANCE OF NON-TRADITIONAL CREDIT:

The acceptance of non-traditional credit is at the sole discretion of this institution. Non-traditional credit includes, but is not limited to: credit-by-examination, portfolio credit, and professional/military training.

Please consult with your academic advisor at this institution to ensure the transferability and applicability of all credit-by-examinations suggested in this degree plan. All students are advised to consult their academic advisors before taking any credit-by-examination or completing a portfolio.

This document is an UNOFFICIAL Degree Plan to provide you with a preliminary projection of how your prior learning experiences may fit into the specified degree program for this academic institution. If you choose to pursue this degree option, you must present it to a college representative, at this institution who will review it for the following:

- Accurate representation of the college's degree program requirements, including course numbers and titles, credit hours for each course, lower- and upper-level course requirements, and the total number of credits needed for the degree.
- Appropriate assignment of non-traditional credit at the lower or upper level for corporate professional training, military service schools and occupations, CLEP, DSST, and other tests, transfer credit for courses from other colleges and universities, certification programs, if applicable.

Credit for all courses you have taken must be reflected on official transcripts sent directly to this institution from the administrative offices of the colleges and universities you previously attended when you seek formal admission. This degree plan is typically used for information purposes by institution's counselors pending receipt of the official transcripts from the source colleges and universities.

#### DEGREE PLAN LEGEND:

SH = Semester hours (or QH = Quarter Hours)

LL = Lower Level, i.e. courses at the Freshman/Sophomore level

UL = Upper Level, i.e. courses at the Junior/Senior level

GL = Graduate Level (sometimes recommended by ACE for very complex courses)

#### SCHOOL NOTES:

Columbia College (CC) General Information:

Columbia College is a private coeducational institution that offers associate, baccalaureate, and masters degrees that prepare students of differing backgrounds and abilities, for entry level or advanced positions in various occupations and professions. Founded in 1851 by charter of the Missouri legislature, and then named Christian Female College, the first college for women to be chartered by the state legislature west of the Mississippi River. It was founded as a nonsectarian baccalaureate institution for women. In response to the junior college movement, the College was accredited as a two-year institution in 1910. The College dropped the "Female" from its name in 1929 and adopted the new name of Columbia College in 1970, at which time the College also became coeducational and began planning for the turn to baccalaureate status. Accreditation at the baccalaureate level was granted in July 1973.



Students may enroll in either day or evening classes at the home campus in Columbia, Missouri or in its Extended Studies Division at one of its 31 locations around the country. Students may also enroll in the web-based distance education classes worldwide.

#### ACCREDITATION:

The College is regionally accredited by the Higher Learning Commission of the North Central Association and holds specialized accreditation in its Education, Nursing, and Social Work programs.

#### RANKINGS:

Columbia College has earned the following rankings in 2016 from U.S. News and World Report:

- #106 Best Online Bachelor's Programs
- #107 Best Online MBA Programs
- #6 Best Online Graduate Criminal Justice Programs
- #146 Best Online Graduate Education Programs

#### 2016/2017 TUITION & FEES:\*

##### Distance Education Tuition:

- Undergraduate Tuition: \$290/credit hour
- Graduate Tuition: \$395/credit hour

##### Yellow-Ribbon:

This school is a Yellow-Ribbon Program-participating institution. Please contact the school directly for more detailed information.

\*This is only a general listing of the tuition and fees, of which Columbia College reserves the right to modify without prior notice. All costs listed are subject to change. To view a complete listing of the most recently posted schedule of tuition and fees, please visit the website.

#### CONTACT INFORMATION:

Online Campus Staff  
Columbia College  
1001 Rogers Street  
Columbia, MO 65216

Phone: (573) 875-7642  
Toll Free: (800) 231-2391, ext. 7642

Fax: (573) 875-7445  
email: onlinecampus@ccis.edu  
Web: www.ccis.edu

For questions concerning the degree plan itself, please contact:  
George Ashton at (573) 875-7638  
Fax: (573) 875-7391

While we strive to provide only the most accurate information, all of the information in this degree plan should only be used as an unofficial, preliminary comparison tool. We cannot guarantee the accuracy of the information presented. Additional information—such as potentially unlisted rankings and accreditations, availability of courses, licensure requirements, etc.—may need to be researched by the customer for a complete comparison. All student are encouraged to speak with the schools directly for the most complete and accurate information.

**DEGREE POLICY NOTES:**

General Requirements:

- The maximum amount of college credit-by-examination or other forms of non-traditional credit that may apply to this degree (including military credit) is 60 semester hours.
- A minimum grade point average of 2.0.
- A minimum of 39 hours of upper division course work.
- A minimum of 30 hours of coursework for a baccalaureate degree must be taken from CC, with 12 hours of these being in the major (6 of which must be UL).
- A grade of "D" is NOT accepted in transfer

Additional credit for military service:

Columbia College awards the following credit in addition to that presented in the ACE Guides to servicemembers and veterans:

- For having completed Basic Military Training - 4 semester hours Lower Level Elective credit
- For servicemembers with less than one year in the military - 4 semester hours Lower Level Elective credit
- For servicemembers with more than one year in the military - 8 semester hours Lower Level Elective credit
- For servicemembers promoted to Warrant Officer - 8 semester hours Lower Level (for prior enlisted service) plus 8 semester hours Upper Level Elective credit
- For servicemembers promoted to Commissioned Officer - 8 semester hours Lower Level (for prior enlisted service) plus 12 semester hours Upper Level Elective credit

Note: This is credit awarded by institutional assessment and may not be accepted in transfer to other institutions.

**COST SAVINGS:**

This institution values non-traditional learning experiences and awards credit for college level examinations, military training and experiences, corporate and government training; thereby saving students a substantial amount of time and money. In fact, we project 31 hours of college credit for your non-traditional learning may be applied to this degree, thereby saving you 589 hours of classroom time, \$8,990.00 in tuition, and

approximately \$1,023.00 in textbook and material costs.

**FINANCIAL AID NOTE:**

Financial Aid Note: You may want to consider seeking federal financial aid in the pursuit of this degree. To request grants or loans from the federal government, you should visit <http://www.fafsa.ed.gov> or call their toll-free number at 1-800-4FED-AID (1-800-433-3243) or 1-319-337-5665. If you are hearing-impaired and have questions, please contact the TTY line at 1-800-730-8913. When submitting the Free Application for Federal Student Aid (FAFSA), you will be asked for the federal school code for the college or university that you want to attend. The identification number for this institution is 002456. Note: You do not have to be a U.S. citizen to receive federal financial aid - some non-citizens with Social Security Numbers may also qualify. It is in the student's best interest to utilize federal grants first (if eligible), followed by federally subsidized loans (such as the Stafford Loan), then use unsubsidized loans if needed.

Evaluation completed by Tim Scoggins on 29 October 2016