

## APPENDIX A.4

**For students who start Fall 2016 and after**

*A.A.S. in Information Tech, Web Development to B.S. in Computer Information Systems*

### Delaware County Community College

#### ***First Semester***

ENG 100 English Composition I      3 crs.  
DPR 100 Intro to Info Tech          3 crs.  
DPR 101 Intro to Computer Sci      3 crs.

Pick One:

\*MAT 120 Modern College Math    **OR** 3 crs.  
\*MAT 121 Intro to Probability Stats **OR** 3 crs.  
\*MAT 135 Business Precalculus    **OR** 3 crs.  
\*MAT 151 College Algebra          4 crs.

\*\*Any Diversity & Soc. Justice and

Global Understanding designated course 3 crs. Dependent on course selection

#### ***Second Semester***

ENG 112 English Composition II    3 crs.  
IMM 110 Multimedia Graphics & Design 3 crs.  
IMM 120 Web page Design & Dev    3 crs.

Pick One:

\*MAT 120 Modern College Math    **OR** 3 crs.  
\*MAT 121 Intro to Probability Stats **OR** 3 crs.  
\*MAT 136 Business Calculus        **OR** 3 crs.  
MAT 152 Precalculus                4 crs.  
\*\*Any Scientific Inquiry course    4 crs.

#### ***Third Semester***

DPR 207 Intro to Oracle SQL        4 crs.  
DPR 241 Mobile Web Development 3 crs.  
DPR 141 UNIX Operating Systems    3 crs.  
DPR 214 JQuery/Java Script        3 crs.  
NET 110 Network Communications 3 crs.

#### ***Fourth Semester***

NET 230 Network Operating Sys. Conc. 4 crs.  
  
DPR 206 Prog. For the Web          3 crs.  
IMM 100 Interface Design & Rapid-Proto. 3 crs.  
\*\* Any Oral Comm designated course 3 crs.

### California University of Pennsylvania

#### ***First Semester***

ENG 101 English Composition I      3 crs.  
CIS 110 Intro Info Systems          3 crs.  
CSC 120 Problem Solving/Logic      3 crs.

MAT 162 Math Transfer    **OR**      3 crs.  
MAT 215 Statistics        **OR**      3 crs.  
MAT 162 Business Pre-calculus **OR** 3 crs.  
MAT 181 College Algebra          3 crs.

Dependent on course selection      3 crs.

#### ***Second Semester***

ENG 102 English Composition II    3 crs.  
GCM 162 Graphics & Multimed.      3 crs.  
CSC 201 Internet Concepts          3 crs.

MAT 162 math Transfer **OR**      3 crs.  
MAT 215 Statistics        **OR**      3 crs.  
MAT 273 Applied Calculus **OR**    3 crs.  
MAT 199 Pre-calculus                3 crs.  
Dependent on course selection      4 crs.

#### ***Third Semester***

CIS 322 Database Application Prog. 4 crs.  
CIS 474 CIS Special Topics          3 crs.  
CIS 474 CIS Special Topics          3 crs.  
CIS 330 Web Programming I        3 crs.  
CSC 162 Computer Transfer        3 credits

#### ***Fourth Semester***

CIS 474 CIS Special Topics    +      3 crs.  
CIS 162 General Transfer          1 cr.  
CIS 332 Web Programming II      3 crs.  
GCM 162 Graphics Transfer        3 crs.  
Dependent on course selection      3 crs.

***\*Mathematics course: the following pick one math course is recommended to fulfill a Cal U requirement.***

MAT 121 Intro to Probability & Stats	3 crs.	MAT 215 Statistics	3 crs.
MAT 136 Business Calculus	3 crs.	MAT 273 Applied Calc	3 crs.

***\*\*General Education Courses: The following is recommended to fulfill general education requirements at Cal U :***

Any Diversity & Soc. Jus. Global Understanding Designated Course:

PSY 140 Gen. Psychology	3 crs,	PSY 100 Gen. Psychology	3 crs.
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Any Scientific Inquiry:

Choose any Scientific Inq. With a lab	4 crs.	NLS 164 Natural Science Transfer	4 crs.
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Any Oral Communication designated Course:

COMM 111 Public Speaking	3 crs.	COM 101 Oral Communications	3 crs
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**Total Transfer Credits accepted: 60-62 crs.**

**Residency Policy: To earn a California University of PA degree, 30 of the last 60 credits must be taken from Cal U. In addition, students will take at least 50% of credits required for the Major from a PASSHE university. The degree-granting University may require up to a maximum of 50% of the Major credits. This is in accordance with PASSHE's academic residency policy and related Board of Governors' policies.**

### APPENDIX A.3

**For students who start major Fall 2016 and after**

***A.S. in Business Administration-General Business to B.S. in Computer Information Systems***

#### **Delaware County Community College**

##### ***First Semester***

ENG 100 English Composition I	3 crs.
BUS 100 Intro to Business	3 crs.
DPR 100 Intro to Info Tech	3 crs.
ACC 111 Financial Accounting	3 crs.
*Any Diversity & Soc. Justice	3 crs.

##### ***Second Semester***

ENG 112 English Composition II	3 crs.
ACC 112 Managerial Accounting	3 crs.
ECO 210 Macroeconomics	3 crs.
MAT 135 Business Precalc	3 crs.
BUS 230 Princ of Marketing	3 crs.

##### ***Third Semester***

ECO 220 Microeconomics	3 crs.
BUS 243 Legal Envir. of Bus.	3 crs.
BUS 210 Princ of Management	3 crs.
BUS 130 Business Communications	3 crs.
*Any Scientific Inquiry Designed Sci. Course	4 crs.

##### ***Fourth Semester***

MAT 136 Business Calculus	3 crs.
BUS 220 Elementary Statistics	3 crs.
*Humanities Elective	3 crs.
*BUS or Open Elective	3 crs.
*Science Elective	3-4 crs.

#### **California University of Pennsylvania**

##### ***First Semester***

ENG 101 English Composition I	3 crs.
BUS 100 Intro to Business	3 crs.
CIS 110 Intro Info Systems	3 crs.
ACC 200 Financial Accounting	3 crs.
Dependent on course selection	3 crs.

##### ***Second Semester***

ENG 102 English Composition II	3 crs.
ACC 321 Managerial Accounting	3 crs.
ECO 202 Macroeconomics	3 crs.
MAT 162 Math Elective	3 crs.
MKT 300 Princ of Marketing	3 crs.

##### ***Third Semester***

ECO 201 Microeconomics	3 crs.
BUS 242 Business Law I	3 crs.
MGT 300 Princ of Management	3 crs.
ENG 211 Business Writing I	3 crs.
Dependent on course selection	4 crs.

##### ***Fourth Semester***

MAT 273 Applied Calculus	3 crs.
MAT 225 Business Statistics	3 crs.
Dependent on course selection	3 crs.
Dependent on course selection	3 crs.
Dependent on course selection	3-4 crs.

***\*General Education Courses: The following is recommended to fulfill general education requirements at Cal U :***

Any Diversity & Soc. Jus. Designated Course;

PSY 140 Gen. Psychology 3 crs,

Any Scientific Inquiry:

Choose any Scientific Inq. With a lab 4 crs.

BUS or Open Elective:

COMM 111 Public Speaking 3 crs.

Humanities Electives:

Choose any humanities course 3 crs.

Science Elective:

Choose any science course 3-4 crs.

PSY 100 Gen. Psychology 3 crs.

NLS 164 Natural Science Transfer 4 crs.

COM 101 Oral Communications 3 crs.

GEE 162 General Education 3 crs.

NLS Natural Science Transfer 3-4 crs.

**Total Transfer Credits accepted: 61/62 crs.**

**Residency Policy:** To earn a California University of PA degree, 30 of the last 60 credits must be taken from Cal U. In addition, students will take at least 50% of credits required for the Major from a PASSHE university. The degree-granting University may require up to a maximum of 50% of the Major credits. This is in accordance with PASSHE's academic residency policy and related Board of Governors' policies.

**APPENDIX A.1**  
***A.A.S. Accounting to B.S. in Computer Information Systems***

**For students who start major Fall 2016 and after**

**Delaware County Community College**

***First Semester***

ENG 100 English Composition I	3 crs.
BUS 104 Mathematics for Business	3 crs.
BUS 100 Intro to Business	3 crs.
ACC 111 Financial Accounting	3 crs.
DPR 100 Intro to Info Tech	3 crs.

***Second Semester***

ENG 112 English Composition II	3 crs.
ACC 112 Managerial Accounting	3 crs.
ACC 115 Computerized Accounting	3 crs.
**BUS/DPR Elective	3 crs.
*Any Diversity & Soc. Just. designated Soc Sci	3 crs.

***Third Semester***

ACC 201 Intro Cost Accounting	3 crs.
ACC 202 Intro Tax Acct	<b>OR</b> 3 crs.
ACC 210 Federal Income Tax Acct	3 crs.
BUS 130 Business Communication	3 crs.
*Any Scientific Inquiry Designed Sci.	4 crs.
*Social Science Elective	3 crs.

***Fourth Semester***

ECO 210 Macroeconomics	<b>OR</b> 3 crs.
ECO 220 Microeconomics	3 crs.
BUS 243 Legal Envir of Business	3 crs.
**BUS/DPR Elective	3 crs.
*Humanities Elective	3 crs.
*Open Elective	3 crs.

***\*General Education Courses: The following is recommended to fulfill general education requirements at Cal U :***

**Any Diversity & Soc. Jus. Designated Soc Sci;**

Choose any course 3 crs.

**Social Science Elective:**

PSY 140 Gen Psy. 3 crs.

**California University of Pennsylvania**

***First Semester***

ENG 101 English Composition I	3 crs.
MAT 162 Math Elective	3 crs.
BUS 100 Intro to Business	3 crs.
ACC 200 Financial Accounting	3 crs.
CIS 110 Intro Info Systems	3 crs.

***Second Semester***

ENG 102 English Composition II	3 crs.
ACC 321 Managerial Accounting	3 crs.
ACC 162 Accounting Transfer	4 crs.
Dependent on course selection	3 crs.
Dependent on course selection	3 crs.

***Third Semester***

ACC 162 Accounting Transfer	3 crs.
ACC 218 Federal Income Tax I	<b>OR</b> 3 crs.
ACC 218 Federal Income Tax I	3 crs.
Dependent on course selection	4 crs.
Dependent on course selection	3 crs.

***Fourth Semester***

ECO 202 Macroeconomics	<b>OR</b> 3 crs.
ECO 201 Microeconomics	3 crs.
BUS 242 Business Law I	3 crs.
Dependent on course selection	3 crs.
Dependent on course selection	3 crs.
Dependent on course selection	3 crs.

GEE 162 Gen. Education Transfer 3 crs.

PSY 100 General Psychology 3 crs.

**Humanities:**

Choose any humanities course	3 crs.	GEE 162 General Education	3 crs
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**Any Scientific Inquiry:**

Choose any Scientific Inq.	4 crs.	NLS 164 Natural Science Transfer	4 crs.
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**Open Elective:**

COMM 111 Public Speaking	3 crs.	COM 101 Oral Communications	3 crs.
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**\*\* BUS/DPR Electives – *Cal U recommends selecting from the following BUS/DPR Electives:***

BUS 210 Principles of Management	3 crs.	MGT 300 Princ of Management	3crs.
BUS 230 Principles of Marketing	3 crs.	MKT 300 Princ of Marketing	3 crs.

**Total Transfer Credits accepted: 62 crs.**

**Residency Policy:** To earn a California University of PA degree, 30 of the last 60 credits must be taken from Cal U. In addition, students will take at least 50% of credits required for the Major from a PASSHE university. The degree-granting University may require up to a maximum of 50% of the Major credits. This is in accordance with PASSHE's academic residency policy and related Board of Governors' policies.

## APPENDIX A.2

**For students who start major Fall 2016 and after**

### *A.A.S General Business to B.S. in Computer Information Systems*

#### Delaware County Community College

##### *First Semester*

ENG 100 English Composition I 3 crs.  
\*BUS 104 Mathematics for Business 3 crs.  
BUS 100 Intro to Business 3 crs.  
DPR 100 Intro to Info Tech 3 crs.  
\*\*Any Diversity & Soc. Justice 3 crs.

##### *Second Semester*

ACC 100 Applied Accounting **OR** 3 crs.  
ACC 111 Financial Accounting 3 crs.  
BUS 210 Princ. of Management 3 crs.  
BUS 130 Business Communication 3 crs.  
PSY 130 Personal & Career Dev. 3 crs.  
\*\*\*Program Elective 3 crs.

##### *Third Semester*

BUS 230 Princ. of Marketing 3 crs.  
BUS 215 Human Resources Mngt. 3 crs.  
\*Any Scientific Inquiry Designed Sci. Course 4 crs.  
\*\*Program Electives 6 crs.

##### *Fourth Semester*

Any Global Understanding course 3 crs.  
\*\*\*Program Electives Elective 12 crs.

#### California University of Pennsylvania

##### *First Semester*

ENG 101 English Composition I 3 crs.  
MAT 162 Math Elective 3 crs.  
BUS 100 Intro to Business 3 crs.  
CIS 110 Intro Info Systems 3 crs.  
Dependent on course selection 3 crs.

##### *Second Semester*

ACC 162 Accting Transfer **OR** 3 crs.  
ACC 200 Financial Accounting 3 crs.  
MGT 300 Princ of Management 3 crs.  
ENG 211 Business Writing I 3 crs.  
PSY 162 Psy. Transfer 3 crs.  
Dependent on course selection 3 crs.

##### *Third Semester*

MKT 300 Princ of Marketing 3 crs.  
MGT 162 Management Transfer 3 crs.  
Dependent on course selection 4 crs.  
Dependent on course selection 6 crs.

##### *Fourth Semester*

Dependent on course selection 3 crs.  
Dependent on course selection 12 crs.

**\* Recommend substituting BUS 220 Elementary Statistics for BUS 104 Mathematics for Business. This will fulfill the required major specific MAT 225 Business Statistics Cal U requirement.**

**\*\*General Education Courses: The following is recommended to fulfill general education requirements at Cal U:**

Any Diversity & Soc. Jus. Designated course:

PSY 140 General Psychology 3 crs,

Any Global Understanding:

ECO 210 Macroeconomics **OR** 3 crs.

PSY 100 General Psychology 3 crs.

ECO 202 Macroeconomics **OR** 3 crs.

ECO 220 Microeconomics	3 crs	ECO 201 Microeconomic	3 crs.
Any Scientific Inquiry:			
Choose any Scientific Inq.	4 crs.	NLS 164 Natural Science Transfer	4 crs.

***\*\*Program Electives: The following is recommend to fulfill major requirements at Cal U:***

BUS 243 Legal Envir. of Bus.	3 crs.	BUS 242 Business Law I	3 crs.
DPR 206 Prog. For the Web	3 crs.	CIS 332 Web Programming II	3 crs.
DPR 207 Intro to Oracle SQL	3 crs.	CIS 322 Database Application Prog.	3 crs.
DPR 214 JQuery/Java Script	3 crs.	CIS 330 Web Programming I	3 crs.

**Total Transfer Credits accepted: 61 crs.**

**Residency Policy:** To earn a California University of PA degree, 30 of the last 60 credits must be taken from Cal U. In addition, students will take at least 50% of credits required for the Major from a PASSHE university. The degree-granting University may require up to a maximum of 50% of the Major credits. This is in accordance with PASSHE's academic residency policy and related Board of Governors' policies.