

OVERVIEW

- A. Provide a brief description of the new concentration (including the specific focus of the new concentration, relationship to other concentrations in this degree program, etc.).

The B.A. in Business with a concentration in Information Security will provide students with a strong foundation of core business skills as well as basic critical and technical skills necessary to understand cyber threats, security, and prevention in the business setting. The Information Security concentration share the business courses of other concentrations in the degree program, while the concentration courses fill an opportunity in the information security sector.

- B. Explain the unit's need for the new concentration (e.g., market demand, research base, direction of the discipline, and interdisciplinary considerations). How will the new concentration complement the existing degree program?

Today's organizations rely on cyber infrastructure to conduct business transactions with their customers and business partners. The B.A. in Business with a concentration in Information Security will provide students with core business skills and basic critical and problem solving skills necessary to understand how digital infrastructure should be organized and managed with business policies and frameworks such that the risks to organizational processes and transactions are minimized. The degree program would be ideal for those who are interested in managing digital business, working in organizations that predominantly conduct business online, and developing basic information security technical competency relevant for most organizations.

The courses in the concentration are a combination of W. P. Carey (CIS) courses and New College (ACO) courses, blending the unique strengths of the two colleges into one degree experience. This will serve to boost enrollment for both colleges in a complementary fashion. This program will be housed on the West campus, assisting with the branding efforts of that campus and helping to ensure continued enrollment growth.

1. Support and Impact

- A. Attach a supporting letter from the chair of the academic unit verifying that the proposed concentration has received faculty approval through appropriate governance procedures in the unit and that the unit has the resources to support the concentration as presented in the proposal, without impacting core course resources.
- B. Identify other related ASU programs and outline how the new concentration will complement these existing ASU programs. (If applicable, statements of support from potentially affected academic units need to be included with this proposal submission.)

New College of Interdisciplinary Arts and Sciences offers Applied Computing and Ira A. Fulton Schools of Engineering offers Information Technology. The B.A. in Business with a concentration in Information Security would be complementary for students who are interested in these areas but with a business focus. It will also be attractive to students in computer information systems or business data analytics who want to better understand cyber threats and security.

- C. Attach a supporting letter from each college/school dean from which individual courses, or the entire concentration, are taken.

2. Academic Curriculum and Requirements

- A. Attach a PDF copy of the assessment plan printed from the University Office of Evaluation and Educational Effectiveness assessment portal demonstrating UOEEE's approval of your assessment plan for this program. Visit the assessment portal at <https://uoeee.asu.edu/assessment-portal> or contact uoeee@asu.edu with any questions.

B. Provide the curricular structure for this concentration. Be specific in listing required courses and specify the total minimum number of hours required for the concentration.

Required Core Courses for the Degree/Major				
Prefix	Number	Title	Is this a new Course?	Credit Hours
ACC	231	Uses of Accounting Information I	No	3
ACC	241	Uses of Accounting Information II	No	3
AGB	302	International Management and Agribusiness OR ECN 306 Survey of International Economics OR MGT 302 Principles of International Business OR MKT 425 Global Marketing Management OR SCM 463 Global Supply Chain Management	No	3
CIS	105	Computer Applications and Information Technology	No	3
COM	100	Introduction to Human Communication OR COM 225 Public Speaking OR COM 230 Small Group Communication OR COM 259 Communication in Business and the Professions	No	3
ECN	211	Macroeconomics Principles	No	3
ECN	212	Microeconomic Principles	No	3
ECN	221	Business Statistics	No	3
ENG	101	First-Year Composition OR ENG 105 Advance First-Year Composition OR ENG 107 First-Year Composition	No	3
ENG	102	First-Year Composition OR ENG 108 First-Year Composition	No	3
ENG	302	Business Writing OR ENG 301 Writing for the Professions	No	3
FIN	300	Fundamentals of Finance	No	3
LES	305	Business Law and Ethics for Managers	No	3
MAT	210	Brief Calculus	No	3
MAT	211	Mathematics for Business Analysis	No	3
MGT	300	Organization and Management Leadership	No	3
MKT	300	Marketing and Business Performance	No	3
PSY	XXX	PSY prefix course with SB designation	No	3
SCM	300	Global Supply Operations	No	3
SOC	XXX	SOC prefix course with SB designation	No	3
WPC	101	Student Success in Business	No	1
WPC	300	Problem Solving and Actionable Analytics	No	3
WPC Career Preparation Courses – 1 credit total (students can be on FTF track or transfer student track)				
WPC Career Preparation Courses - FTF track				
WPC	148	Freshman Career Preparation	Yes	0.25

WPC	248	Sophomore Career Preparation	Yes	0.25
WPC	348	Junior Career Preparation	Yes	0.25
WPC	448	Intensive Career Preparation OR WPC 449: Campus to Career	Yes	0.25
WPC Career Preparation Courses – Transfer Student track				
WPC	347	Intensive Career Preparation	Yes	0.5
WPC	348	Junior Career Preparation	Yes	0.25
WPC	448	Intensive Career Preparation OR WPC 449: Campus to Career	Yes	0.25
<i>Section sub-total:</i>				64
Required Concentration Courses				
Prefix	Number	Title	Is this a new Course?	Credit Hours
ACO	330	Computer Networks	No	3
ACO	351	Governance, Risk and Compliance OR ACO/CIS 402 Privacy, Ethics and Compliance Issues	No	3
CIS	235	Introduction to Information Systems	No	3
CIS	325	Fundamental Techniques for Business Data Analytics	No	3
CIS	360	Business Database Concepts	No	3
CIS	401	Managing Cyber Risks in Enterprise Business Processes	No	3
FOR	350	Computer Forensics	No	3
<i>Section sub-total:</i>				21
Elective Concentration Courses				
Prefix	Number	Title	Is this a new Course?	Credit Hours
<i>Section sub-total:</i>				
Other Concentration Requirements				Credit Hours
<i>E.g. – Capstone experience, internship, clinical requirements, field studies, foreign language skills as applicable</i>				
<i>Section subtotal:</i>				
Total minimum credit hours required for concentration				85

C. A minimum residency requirement: How many hours of the concentration must be ASU credit?
 12 hours resident credit is required in the concentration.

D. Provide a brief course description for each new course.

Note: All new required courses should be submitted in Curriculum Changemaker and ready for Provost's Office approval before this concentration is put on the CAPC agenda.

No new courses are being developed for this program. The new courses listed are for other core Information Systems programs degree programs.

3. Administration and Resources

A. How will the proposed concentration be administered (including admissions, student advisement, retention, etc.)?

Current resources will be used to provide admissions, advisement, and retention support for this program. The W. P. Carey School has a well-developed process in place for these functions.

B. What are enrollment projections for the next three years?

	1st Year	2nd Year (Yr 1 continuing + new entering)	3rd Year (Yr 1 & 2 continuing + new entering)
Number of Students (Headcount)	30	60	100

C. What are the resource implications for the proposed concentration, including any projected budget needs? Will new books, library holdings, equipment, laboratory space and/or personnel be required now or in the future? If multiple units/programs will collaborate in offering this concentration, please discuss the resource contribution of each participating program. Letters of support must be included from all academic units that will commit resources to this concentration.

The W. P. Carey School will monitor resource needs and acquire as appropriate.

D. Please list the primary faculty participants regarding this proposed concentration. For interdisciplinary concentrations, please include the relevant names of faculty members from across the University.

Name	Title	Area(s) of Specialization as they relate to proposed concentration
Matthew Sopha	Clinical Assistant Professor	Information Systems
Linda Prince	Lecturer	Information Systems
Hina Arora	Clinical Assistant Professor	Information Systems
Paul Steinbart	Professor	Information Systems
Feng Wang	Associate Professor	Applied Computing
Kim Jones	Professor of Practice	Applied Computing
Kuai Xu	Associate Professor	Applied Computing

4. Additional Materials

- A. Prepare and attach a Major Map. If this program will be delivered online as well as in-person, attach a copy of both the major map and the online major map. Please use the "proposed map" function to create a Major Map in [BAMM](#). Instructions on how to create a "proposed major map" in BAMM can be found in the Build a Major Map Training Guide.
- B. *Complete and attach the Appendix document.*
- C. Attach other information that will be useful to the review committees and the Office of the University Provost.

**APPENDIX
OPERATIONAL INFORMATION FOR UNDERGRADUATE CONCENTRATIONS**

(This information is used to populate the Degree Search/catalog website.
Please consider the student audience in creating your text.)

Proposed Major and Concentration Name: B.A. Business (Information Security)

1. Marketing Description (*Optional. 50 words maximum. The marketing description should not repeat content found in the program description.*)

Today’s organizations rely on cyber infrastructure to conduct business transactions with their customers and business partners. This program provides students with skills necessary to understand how digital infrastructure should be organized and managed with business policies and frameworks such that the risks to organizational processes and transactions are minimized.

2. Program Description (150 words maximum)

Data security has become an everyday part of business operations. Protecting key stakeholders and clients is an essential aspect for businesses of all sizes and types. The BA degree program in business with a concentration in information security provides students with core business skills as well as basic critical and technical skills necessary to understand cyber threats, security and prevention in the business setting.

3. Contact and Support Information

Building code and room number: (Search ASU map)	FAB N101
Program office telephone number: (i.e. 480/965-2100)	602/543-6200
Program Email Address:	wpcadmissions@asu.edu
Program Website Address:	https://wpcarey.asu.edu/undergraduate-degrees/admission-requirements

4. Additional Program Description Information

- A. Additional program fee required for this program? Yes No
- B. Does this program have a second language requirement? Yes No

5. Delivery/Campus Information Options

On-campus only (ground courses and/or iCourses)

Note: Once students elect a campus or online option, students will not be able to move between the on-campus and the ASU Online options. Approval from the Office of the University Provost and Philip Regier (Executive Vice Provost and Dean) is required to offer programs through ASU Online. Please contact Ed Plus then complete the ASU Online Offering form in Curriculum ChangeMaker to begin this request.

6. Campus/Locations *indicate all locations where this program will be offered.*

- Downtown Phoenix Polytechnic Tempe Thunderbird West Other: _____

7. Career Opportunities & Concentration(s)

Provide a brief description of career opportunities available for this degree program with the proposed concentration. (150 words maximum)

This is an ideal degree for students interested in anything from small business start-ups to management of large cybersecurity companies. The degree program prepares those who are interested in managing digital business, working in organizations that predominantly conduct business online, and developing basic information security technical competency relevant for most organizations.

8. Additional Freshman Admission Requirements

If applicable, list any freshman admission requirements that are higher than and/or in addition to the university minimum undergraduate admission requirements.

Freshman admission requirements for this program are the same as the university's freshman admission requirements.

Readmission requirements: Students must have a 3.00 transfer GPA (if applicable) and a 3.00 cumulative ASU GPA.

9. Additional Transfer Admission Requirements

If applicable, list any admission requirements for transfer students that are higher than and/or in addition to the university minimum undergraduate transfer admission requirements.

Transfer applicants must have a 3.00 GPA for all transfer work and must meet university transfer admission requirements. Transfer students should select an additional major, which must be outside the W. P. Carey School of Business, when applying for admission.

Students with fewer than 45 transfer credit hours who are not admissible to a W. P. Carey School of Business major and who did not select a second major or are not admissible to their second major choice will be placed in the Exploratory Social and Behavioral Sciences program in the College of Integrative Sciences and Arts.

10. Change of Major Requirements

Standard change of major text is as follows: Students should refer to <https://students.asu.edu/changingmajors> for information about how to change a major to this program.

If applicable, list any additional requirements for students who may change their major into this program.

A current ASU student, outside of business, must have a 3.00 transfer GPA (if applicable) and a 3.00 cumulative ASU GPA to change a major to this W. P. Carey program.

11. Keywords

List all keywords used to search for this program (limit 10). Keywords should be specific to the proposed program.

Business, Cybersecurity, Information Security, Computing, Cyber, Risk, Cybernetics

12. Advising Committee Code

List the existing advising committee code associated with this degree.

UGBA23

*Note: If a new advising committee needs to be created, please complete the following form:
Proposal to create an undergraduate advising committee*

13. Western Undergraduate Exchange (WUE) Eligible

Has a request been submitted to the University Provost by the Dean to consider this degree program as eligible for [WUE](#)?

No

*Note: **No** action will be taken during the implementation process with regards to WUE until approval is received from the University Provost.*

14. First Required Math Course

List the first math course required in the major map.

MAT 210

15. Math Intensity

a. List the highest math required on the major map. (This will not appear on Degree Search.)

MAT 211

b. What is the math intensity as indicated by the highest math required on the major map? Math intensity categorization can be found here: <https://catalog.asu.edu/mathintensity>

Moderate

16. ONET Codes

Identify ONET/SOC codes that should be displayed on Degree Search. ONET/SOC codes can be found at: <http://www.onetonline.org/crosswalk/SOC/>. Alternate titles displayed on Degree Search may vary and can be found at: <https://catalog.asu.edu/alternate-career-titles>.

15-1122.00	.....	13-1081.00	.....
15-1199.07	.....	13-1081.02	.....
15-2031.00	.....	11-1021.00	.....
15-1199.08	.....		.....
13-2041.00	.....		.....

17. Area(s) of Interest

A. Select **one** (1) primary area of interest from the list below that applies to this program.

- | | |
|---|---|
| <input type="checkbox"/> <u>Architecture & Construction</u> | <input type="checkbox"/> Health & Wellness |
| <input type="checkbox"/> <u>Arts</u> | <input type="checkbox"/> Humanities |
| <input checked="" type="checkbox"/> Business | <input type="checkbox"/> <u>Interdisciplinary Studies</u> |
| <input type="checkbox"/> <u>Communications & Media</u> | <input type="checkbox"/> <u>Law, Justice & Public Service</u> |
| <input type="checkbox"/> Computing & Mathematics | <input type="checkbox"/> <u>STEM</u> |
| <input type="checkbox"/> Education & Teaching | <input type="checkbox"/> <u>Science</u> |
| <input type="checkbox"/> <u>Engineering & Technology</u> | <input type="checkbox"/> <u>Social and Behavioral Sciences</u> |
| <input type="checkbox"/> Entrepreneurship | <input type="checkbox"/> Sustainability |
| <input type="checkbox"/> <u>Exploratory</u> | |

B. Select **one** (1) secondary area of interest from the list below that applies to this program.

- | | |
|--|---|
| <input type="checkbox"/> <u>Architecture & Construction</u> | <input type="checkbox"/> Health & Wellness |
| <input type="checkbox"/> <u>Arts</u> | <input type="checkbox"/> Humanities |
| <input type="checkbox"/> Business | <input type="checkbox"/> <u>Interdisciplinary Studies</u> |
| <input type="checkbox"/> <u>Communications & Media</u> | <input type="checkbox"/> <u>Law, Justice & Public Service</u> |
| <input checked="" type="checkbox"/> Computing & Mathematics | <input type="checkbox"/> <u>STEM</u> |




- Education & Teaching
- [Engineering & Technology](#)
- Entrepreneurship
- [Exploratory](#)
- [Science](#)
- [Social and Behavioral Sciences](#)
- Sustainability






2018 - 2019 Major Map


Business (Information Security), (Proposed)

School/College:

CUFDEOS

Term 1 0 - 16 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 WPC 101: Student Success in Business	1		<ul style="list-style-type: none"> • An SAT, ACT, Accuplacer, IELTS, or TOEFL score determines placement into first-year composition courses • Mathematics Placement Assessment score determines placement in mathematics course • ASU 101 or college-specific equivalent First-Year Seminar required of all freshman students. WPC 101 is the W. P. Carey School course that meets this requirement. See academic advisor for appropriate Student Success course requirement if not a first-time freshman • Join a student club or organization • Organize and track your activities, events, and experiences with WPC 360 • Create your first college resume
CIS 105: Computer Applications and Information Technology (CS)	3	C	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
MAT 210: Brief Calculus (MA)	3	C	
SOC OR PSY course (SB)	3		
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		
 Minimum 2.00 GPA ASU Cumulative.			
Term hours subtotal:	16		

Term 2 16 - 31.25 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
COM 100: Introduction to Human Communication (SB) OR COM 225: Public Speaking (L) OR COM 230: Small Group Communication (SB) OR COM 259: Communication in Business and the Professions	3		<ul style="list-style-type: none"> • Failure to successfully complete business skills courses in specified term may lead to a delay in graduation. See your academic advisor for more information and options. • Attend W. P. Carey and ASU Career Fairs • Continue using WPC 360 • Join the W. P. Carey mentorship programs • Explore student leadership opportunities in W. P. Carey
ECN 211: Macroeconomic Principles (SB) OR ECN 212: Microeconomic Principles (SB)	3	C	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
MAT 211: Mathematics for Business Analysis	3	C	
WPC Career Preparation Course	0.25		
SOC OR PSY course (SB)	3		
 Complete CIS 105 with a grade of "C" or better.			
 Complete MAT 210 with a grade of "C" or better.			
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
 Minimum 2.00 GPA ASU Cumulative.			
Term hours subtotal:	15.25		

Term 3 31.25 - 47.50 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
ACC 231: Uses of Accounting Information I	3	C	<ul style="list-style-type: none"> • Failure to successfully complete business skills courses in specified term may lead to a delay in graduation. See your academic advisor for more information and options. • Explore career resources.
ECN 211: Macroeconomic Principles (SB) OR ECN 212: Microeconomic Principles (SB)	3	C	
ECN 221: Business Statistics (CS)	3	C	
WPC Career Preparation Course	0.25		

Cultural Diversity in the U.S. (C)	3
Natural Science - Quantitative (SQ)	4
❖ Complete ECN 211 or ECN 212 with a grade of "C" or better.	
❖ Complete MAT 211 with a grade of "C" or better.	
❖ Minimum 2.00 GPA ASU Cumulative.	
Complete Mathematics (MA) requirement.	
Term hours subtotal:	16.25

- Meet with your **W. P. Carey Career Coach**

Term 4 47.50 - 61.50 Credit Hours Critical course signified by ❖	Hours	Minimum Grade	Notes
❖ CIS 235: Introduction to Information Systems	3	C	<ul style="list-style-type: none"> • Failure to successfully complete business skills courses in specified term may lead to a delay in graduation. See your academic advisor for more information and options. • Attend W. P. Carey and ASU career fairs • Apply for internships or create one • Develop your professional online presence
ACC 241: Uses of Accounting Information II	3	C	
Literacy and Critical Inquiry (L)	3		
Natural Science - Quantitative (SQ) OR Natural Science - General (SG)	4		
Upper Division Elective	1		
❖ Complete ACC 231 with a grade of "C" or better.			
❖ Complete ECN 221 with a grade of "C" or better.			
❖ Minimum 2.00 GPA ASU Cumulative.			
Term hours subtotal:	14		

Term 5 61.50 - 76.75 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ CIS 325: Fundamental Techniques for Business Data Analytics	3	C	<ul style="list-style-type: none"> • Students pursuing concurrent degrees within W. P. Carey cannot share coursework in the major. Major coursework must be unique to each degree program. • Failure to successfully complete business skills courses in specified term may lead to a delay in graduation. See your academic advisor for more information and options. • Meet with your W. P. Carey Career Coach • Update your resume
★ CIS 360: Business Database Concepts	3	C	
ENG 302: Business Writing (L) OR ENG 301: Writing for the Professions (L)	3		
MKT 300: Marketing and Business Performance	3	C	
WPC Career Preparation Course	0.25		
General Education Elective	3		
★ Complete ACC 241 with a grade of "C" or better.			
Term hours subtotal:	15.25		

Term 6 76.75 - 91.75 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ ACO 330: Computer Networks	3	C	<ul style="list-style-type: none"> • Complete informational interviews • Complete an in person or virtual practice interview with your W. P. Carey Career Coach
★ CIS 401: Managing Cyber Risks in Enterprise Business Processes	3	C	
WPC 300: Problem Solving and Actionable Analytics	3	C	
Upper Division International Business Elective AND Global Awareness (G)	3	C	
Upper Division Humanities, Arts and Design (HU)	3		
★ Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).			
Term hours subtotal:	15		

Term 7 91.75 - 106.75 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
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★ ACO 351: Governance, Risk and Compliance OR ACO 402: Privacy, Ethics and Compliance Issues or CIS 402: Privacy, Ethics and Compliance Issues	3	C
FIN 300: Fundamentals of Finance	3	C
LES 305: Business Law and Ethics for Managers	3	C
MGT 300: Organization and Management Leadership	3	C
General Education Elective	3	
Term hours subtotal:	15	

- Attend W. P. Carey and ASU Career Fairs
- Gather professional references
- Update your resume

★ Term 8 106.75 - 120.00 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
★ FOR 350: Computer Forensics	3	C	<ul style="list-style-type: none"> • Apply for full-time career opportunities • Meet with your academic advisor to discuss your internship course options
SCM 300: Global Supply Operations	3	C	
WPC Career Preparation Course	0.25		
Upper Division Elective OR WPC 484: Internship	3		
Upper Division Elective	1		
Elective	3		
Term hours subtotal:	13.25		

- W. P. Carey School of Business students may not use courses with the following prefixes to satisfy General Education course requirements: ACC, AGB, BUA, BUS, CIS, COB, ECN, FIN, GLB, HAS, HRM, IBS, ISM, LES, MGT, MKT, OPM, PGM, QBA, REA, SCM, WPC.
- Courses that qualify as meeting the General Education course requirements can be any non-business university General Studies course (C, CS, G, H, HU, L, MA, SB, SG, SQ) or any course from the additional lists below. Please consult the Schedule of Classes for prerequisite requirements before registration to determine if you are eligible to take the course.
- **ASU Language Placement:** Only true beginners are eligible for 101-level courses. All other students are required to take a placement exam, regardless of prior credit earned.

Hide Course List(s)/Track Group(s)

WPC Career Preparation Courses (1 credit hr total)	WPC Career Preparation Courses - Transfer Student Track (1 credit hr total)	Upper Division International Business Course-select one course (3 credit hours)
WPC 148: Freshman Career Preparation	WPC 347: Intermediate Career Preparation	AGB 302: International Management and Agribusiness (G)
WPC 248: Sophomore Career Preparation	WPC 348: Junior Career Preparation	ECN 306: Survey of International Economics (SB & G)
WPC 348: Junior Career Preparation	WPC 448: Intensive Career Preparation or WPC 449: Campus to Career	MGT 302: Principles of International Business (G)
WPC 448: Intensive Career Preparation or WPC 449: Campus to Career		MKT 425: Global Marketing Management (G)
		SCM 463: Global Supply Chain Management (G)
General Studies Electives	General Studies Electives Continued	
ARB 101: Elementary Arabic I	LAT 101: Elementary Latin	
ARB 102: Elementary Arabic II	LAT 102: Elementary Latin	

BIO 320: Fundamentals of Ecology	MAT 242: Elementary Linear Algebra
CHI 205: Chinese Calligraphy	MAT 243: Discrete Mathematical Structures
COM 207: Introduction to Communication Inquiry	MAT 310: Introduction to Geometry
COM 259: Communication in Business and the Professions	MAT 342: Linear Algebra
COM 281: Communication Activities	MAT 362: Advanced Mathematics for Engineers and Scientists
COM 310: Relational Communication	MAT 370: Intermediate Calculus
COM 312: Communication, Conflict, and Negotiation	MAT 371: Advanced Calculus I
COM 317: Nonverbal Communication	MAT 372: Advanced Calculus II
COM 341: Social Contexts for Performance	MAT 410: Introduction to General Topology
COM 414: Crisis Communication	MAT 415: Introduction to Combinatorics
COM 430: Leadership in Group Communication	MAT 416: Introduction to Graph Theory
COM 453: Communication Training and Development	MAT 442: Advanced Linear Algebra
COM 465: Intercultural Communication Workshop	MAT 443: Introduction to Abstract Algebra
ENG 210: Introduction to Creative Writing	MAT 444: Intermediate Abstract Algebra
ENG 213: Introduction to the Study of Language	MAT 445: Theory of Numbers
ENG 310: Intermediate Creative Writing	MAT 460: Vector Calculus
ENG 314: Modern Grammar	MAT 461: Applied Complex Analysis
ENG 345: Selected Authors or Issues	MAT 462: Applied Partial Differential Equations
FAS 301: Introduction to Parenting	MAT 472: Intermediate Real Analysis I
FRE 111: Fundamentals of French	MAT 475: Differential Equations
FRE 472: Franco-Canadian Civilization	MAT 485: History of Mathematics
GCU 433: Geography of Southeast Asia	POR 101: Elementary Portuguese
GER 101: Elementary German I (G)	ROM 101: Elementary Romanian
GER 102: Elementary German (G)	ROM 201: Intermediate Romanian
GER 111: Fundamentals of German	ROM 313: Romanian Composition and Conversation
GRK 101: Elementary Ancient Greek	ROM 314: Romanian Composition and Conversation
GRK 201: Intermediate Ancient Greek	RUS 101: Elementary Russian I
HST 389: Japan Society and Values/Premod	RUS 102: Elementary Russian II
IDN 101: Elementary Indonesian I	SHS 101: American Sign Language I
IDN 102: Elementary Indonesian II	SHS 102: American Sign Language II
ITA 420: Italian Cinema (L & G)	SHS 201: American Sign Language III
JPN 206: Japanese Calligraphy	SHS 202: American Sign Language IV
	SPA 101: Elementary Spanish I

JPN 414: Introduction to Classical Japanese	SPA 102: Elementary Spanish
KOR 101: First-Year Korean I	SPA 111: Fundamentals of Spanish
KOR 102: First-Year Korean II	SPA 315: Advanced Spanish I for Bilinguals (C)
	SPA 316: Advanced Spanish II for Bilinguals (L & C)
	SPA 434: Drama of the Golden Age
	SPA 454: 19th-Century Spanish American Narrative
	SPA 456: 20th-Century Spanish American Fiction
	SPA 486: Chicano/a Novel: <i>Áltima, Rafa y Lala</i>
	SPA 487: Chicano/a Drama: <i>Pachucos, Vendidos y Cerezitas</i> (C)
	THA 101: Elementary Thai I
	THA 102: Elementary Thai II

Total Hours: 120.00
Upper Division Hours: 50 minimum
Major GPA: 2.00 minimum
Cumulative GPA: 2.00 minimum
Total hrs at ASU: 30 minimum
Hrs Resident Credit for Academic Recognition: 56 minimum
Total Community College Hrs: 64 maximum

General University Requirements Legend

General Studies Core Requirements:

- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science - Quantitative (SQ)
- Natural Science - General (SG)

General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

First-Year Composition

General Studies designations listed on the major map are current for the 2018 - 2019 academic year.

Date: 12/18/2017 Program Name: BA in Business (Information Security) Status: UOEEE Provisional Approval

Comment

Assessment Plan

Outcome 1:	Students will demonstrate proficiency in critical thinking
Measure 1.1	Students will analyze a case study and develop a solution to a number of strategy-related problems/issues in CIS 401 or ACO 351
Performance Criterion 1.1	At least 75% of the sampled students who complete the case will achieve a score of 70% or greater thus demonstrating critical thinking and analysis
Measure 1.2	Students surveyed three years after graduation (University Alumni Survey) will evaluate the quality of their university preparation to "Think Critically and Analytically";
Performance Criterion 1.2	75% or more of surveyed students will rate their preparation at a level of "Quite a Bit"; or "Very Much";
Measure 1.3	Students surveyed at graduation (Graduating Senior Report Card) will evaluate the quality of their university preparation to "Think Critically and Analytically";
Performance Criterion 1.3	75% or more of surveyed students will rate their preparation at a level of "Quite a Bit"; or "Very Much";
Outcome 2:	Students will demonstrate proficiency in communications
Measure 2.1	Students will communicate a solution to a number of strategy-related problems/issues in CIS 401 or ACO 351
Performance Criterion 2.1	At least 75% of the sampled students will achieve a score of 70% or greater on their ability to communicate their solution to a number of strategy related problems/issues
Measure 2.2	Students surveyed three years after graduation (University Alumni Survey) will evaluate the quality of their university preparation to "Write Clearly and Effectively";
Performance Criterion 2.2	75% or more of surveyed students will rate their preparation at a level of "Quite a Bit"; or "Very Much";
Measure 2.3	Students surveyed at graduation (Graduating Senior Report Card) will evaluate the quality of their university preparation to "Write Clearly and Effectively";
Performance Criterion 2.3	75% or more of surveyed students will rate their preparation at a level of "Quite a Bit"; or "Very Much";
Outcome 3:	Students will demonstrate proficiency in discipline-specific knowledge
Measure 3.1	Students analyze a case study and develop a solution to a number of strategy-related problems/issues in CIS 401 or ACO 351
Performance Criterion 3.1	At least 75% of the sampled students who complete the case will achieve a score of 70% or greater thus demonstrating cybernetics knowledge
Measure 3.2	Students surveyed three years after graduation (University Alumni Survey) will evaluate the quality of their university preparation to "Acquire job or work-related knowledge and skills";
Performance Criterion 3.2	75% or more of surveyed students will rate their preparation at a level of "Quite a Bit"; or "Very Much";
Measure 3.3	Students surveyed at graduation (Graduating Senior Report Card) will evaluate the quality of their university preparation to "Acquire job or work-related knowledge and skills";
Performance Criterion 3.3	75% or more of surveyed students will rate their preparation at a level of "Quite a Bit"; or

"Very Much"

Outcome 4:

Measure 4.1

Performance Criterion 4.1

Measure 4.2

Performance Criterion 4.2

Measure 4.3

Performance Criterion 4.3

Outcome 5:

Measure 5.1

Performance Criterion 5.1

Measure 5.2


Performance Criterion 5.2

Measure 5.3

Performance Criterion 5.3

If you would like to make additional revisions to the plan, please make revisions to this document and email to wlkrause@asu.edu.

To: Curriculum ChangeMaker

From: Raghu Santanam, Chair and Professor 

Date: August 30, 2017

Regarding: Memorandum of Verification – BABA Information Security Concentration

This is to verify that the Proposal for the Bachelor of Arts in Business with a concentration in Information Security has been reviewed and approved by the Department of Information System's Faculty on August 14, 2017 in accordance with the *Bylaws of the Department of Information Systems* and the associated *IS Department Committees and Charges* document (both last revised 4/17/2015). The new concentration will not require any additional faculty resources to deliver the program to students.

From: Todd Sandrin
Sent: Wednesday, January 24, 2018 4:01 PM
To: Michele Pfund <Michele.Pfund@asu.edu>
Cc: Kimberly Kaplan <Kimberly.E.Kaplan@asu.edu>
Subject: RE: Impact letter for W. P. Carey School of Business Information Systems - New Concentration in Information Security

Thanks, Michelle. I concur and support this change.

Best,
Todd

Todd R. Sandrin, Ph.D.

Dean, New College of Interdisciplinary Arts and Sciences
Vice Provost, West campus
Professor, School of Mathematical and Natural Sciences
Senior Sustainability Scientist - Julie Ann Wrigley Global Institute of Sustainability



From: Michele Pfund
Sent: Wednesday, January 24, 2018 3:51 PM
To: Todd Sandrin <Todd.Sandrin@asu.edu>
Cc: Kimberly Kaplan <Kimberly.E.Kaplan@asu.edu>
Subject: FW: Impact letter for W. P. Carey School of Business Information Systems - New Concentration in Information Security
Importance: High

Hi Todd,

To avoid overlap with other degree programs, we recommend changing the program name to : Bachelor of Arts in Business with a concentration in Information Security.

Do you agree with this change?

Thanks for your feedback,
Michele

From: Patricia Friedrich
Sent: Wednesday, August 16, 2017 11:26 AM
To: Angelina Saric <Angelina.Saric@asu.edu>
Cc: Todd Sandrin <Todd.Sandrin@asu.edu>
Subject: Impact letter for W. P. Carey School of Business Information Systems - New Concentration in

Cybersecurity
Importance: High

Dear Angelina:

The New College of Interdisciplinary Arts and Sciences is enthusiastic about this proposal and very happy to be a part of it. We believe the new Bachelor of Arts in Business concentration in Cybersecurity will positively impact the West Campus and will help us ensure continued enrollment growth.

Thank you,

Patricia Friedrich, PhD
Associate Dean for Academic Programs,
New College of Interdisciplinary Arts and Sciences
Professor of Linguistics/Rhetoric and Composition,
School of Humanities, Arts, and Cultural Studies
Arizona State University P. O. Box 37100
4701 W. Thunderbird Rd. Mail Code 3051
Phoenix, AZ, USA 85069-7100
voice 602 543-6046

From: Angelina Saric

Sent: Wednesday, August 16, 2017 9:11 AM

To: Sandeep Gupta <Sandeep.Gupta@asu.edu>

Cc: Raghu Santanam <Raghu.Santanam@asu.edu>; Michele Pfund <Michele.Pfund@asu.edu>; Todd Sandrin <Todd.Sandrin@asu.edu>; Frances Salas <FRANCES.SALAS@asu.edu>

Subject: Impact letter for W. P. Carey School of Business Information Systems - New Concentration in Cybersecurity

Importance: High

The W. P. Carey School of Business, New College of Interdisciplinary Arts and Sciences, and the Department of Information Systems have identified a need for a new Bachelor of Arts in Business concentration in Cybersecurity. This concentration will be housed on the **West** campus only, assisting with the branding efforts of that campus and helping to ensure continued enrollment growth.

Description: The B.A. in Business with a concentration in Cybersecurity will provide students with a strong foundation of core business skills as well as basic critical and technical tools and skills necessary to understand and manage cyber threats, risks, security, and prevention in the business setting. Students will learn to understand how digital infrastructure should be organized and managed with business policies and frameworks such that the risks to organizational processes and transactions are minimized. The degree program would be ideal for those who are interested in managing digital business, working in organizations that predominantly conduct business online, and developing basic cybernetic technical competency relevant for most organizations

Required core business skill and core classes (ACC, CIS, ECN, MAT, MKT, FIN, AGB, LES, SCM, MGT)

Required courses for the concentration (21 credit hours):

- CIS 235 Introduction to Information Systems

- CIS 325 Fundamental Techniques for Business Data Analytics (Programming)
- CIS 360 Business Database Concepts
- ACO 330 Computer Networks
- ACO 351 Government, Risk, and Compliance or ACO 402 Privacy, Ethics, and Compliance
- FOR 350 Cyber Forensics
- CIS 401 Managing Cyber Risks in Enterprise Business Processes

Career Outcomes:

13-1199.02 – Security Management Specialists

19-4099.01 – Quality Control Analysts

33-9099 – Protective Service Workers, All Other

15-1152 – Computer Network Support Specialists

13-1111.00 – Management Analysts

A reply to this email with your support is appreciated.

We would appreciate a response by end of day, Monday, August 21st.

Thank you,
Angie

Angelina Saric

Arizona State University | [W. P. Carey School of Business](#)

Associate Director – Information Systems

angelina.saric@asu.edu | Ph: 480.965.4974

wpcarey.asu.edu/is | wpcarey.asu.edu/knowIT

From: [Michele Pfund](#)
To: [Daniel Eckstrom](#)
Subject: FW: Impact letter for W. P. Carey School of Business Information Systems - New Concentration in Cybersecurity
Date: Friday, January 19, 2018 1:22:48 PM

Message 2 of 2

From: Sandeep Gupta
Sent: Tuesday, August 22, 2017 11:04 PM
To: Raghu Santanam <Raghu.Santanam@asu.edu>
Cc: Michele Pfund <Michele.Pfund@asu.edu>; Todd Sandrin <Todd.Sandrin@asu.edu>; Frances Salas <FRANCES.SALAS@asu.edu>; Allison Curran <Allison.Curran@asu.edu>; Sandeep Gupta <Sandeep.Gupta@asu.edu>; Angelina Saric <Angelina.Saric@asu.edu>
Subject: RE: Impact letter for W. P. Carey School of Business Information Systems - New Concentration in Cybersecurity

Dear Raghu,

Our CSE UPC makes the following recommendations:

1. Impact for WP Carey School of Business Information Systems – Concentration in Cybersecurity

Only impact is that CS would prefer a different designation such as “Business cyber security management and policy” to make the focus of the concentration clear. The designation of “Cybersecurity” is too broad and interferes with Information Assurance concentration under CS program.

2. Impact for WP Carey School of Business Information Systems – New Undergraduate Certificate in Digital Innovation.

No impact on CSE but needs to be referred to AME to look at if this impacts the Digital Culture degree.

Please let me know if you need any further clarification.

Thank you,

Best,

-sg

Sandeep Gupta, Professor, SCIDSE/ASU (<http://engineering.asu.edu/cidse>)
Interim Director, School of Computing, Informatics, and Decision Systems Engg. (SCIDSE)
Director, IMPACT Lab (<http://impact.asu.edu>)
sandeep.gupta@asu.edu
480-965-3806 (v)
480-965-2751 (f)

From: Raghu Santanam

Sent: Tuesday, August 22, 2017 1:23 PM

To: Sandeep Gupta <Sandeep.Gupta@asu.edu>; Angelina Saric <Angelina.Saric@asu.edu>

Cc: Michele Pfund <Michele.Pfund@asu.edu>; Todd Sandrin <Todd.Sandrin@asu.edu>; Frances Salas <FRANCES.SALAS@asu.edu>; Allison Curran <Allison.Curran@asu.edu>

Subject: Re: Impact letter for W. P. Carey School of Business Information Systems - New Concentration in Cybersecurity

Sandeep,

Did the Department discuss the two requests? Our Faculty council is taking up the proposals tomorrow...

Thanks,
Raghu

From: Sandeep Gupta <Sandeep.Gupta@asu.edu>

Date: Wednesday, August 16, 2017 at 10:38 AM

To: Angelina Saric <Angelina.Saric@asu.edu>

Cc: Raghu Santanam <Raghu.Santanam@asu.edu>, Michele Pfund <Michele.Pfund@asu.edu>, Todd Sandrin <Todd.Sandrin@asu.edu>, Frances Salas <FRANCES.SALAS@asu.edu>, Allison Curran <Allison.Curran@asu.edu>

Subject: RE: Impact letter for W. P. Carey School of Business Information Systems - New Concentration in Cybersecurity

Dear Angelina,

The CS UPC is meeting on Monday. We will try to get you the response to you soon for this request as well as your previous two requests soon after.

Thank you,
Best,
-sg

Sandeep Gupta, Professor, SCIDSE/ASU (<http://engineering.asu.edu/cidse>)
Interim Director, School of Computing, Informatics, and Decision Systems Engg. (SCIDSE)
Director, IMPACT Lab (<http://impact.asu.edu>)
sandeep.gupta@asu.edu
480-965-3806 (v)
480-965-2751 (f)

From: Angelina Saric

Sent: Wednesday, August 16, 2017 9:11 AM

To: Sandeep Gupta <Sandeep.Gupta@asu.edu>

Cc: Raghu Santanam <Raghu.Santanam@asu.edu>; Michele Pfund <Michele.Pfund@asu.edu>; Todd Sandrin <Todd.Sandrin@asu.edu>; Frances Salas <FRANCES.SALAS@asu.edu>

Subject: Impact letter for W. P. Carey School of Business Information Systems - New Concentration in Cybersecurity

Importance: High

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15-1152 – Computer Network Support Specialists
13-1111.00 – Management Analysts

A reply to this email with your support is appreciated.

We would appreciate a response by end of day, Monday, August 21st.

Thank you,
Angie

Angelina Saric

Arizona State University | [W. P. Carey School of Business](#)

Associate Director – Information Systems

angelina.saric@asu.edu | Ph: 480.965.4974

wpcarey.asu.edu/is | wpcarey.asu.edu/knowIT

From: [Michele Pfund](#)
To: [Daniel Eckstrom](#)
Subject: FW: Impact letter for W. P. Carey School of Business Information Systems - New Concentration in Cybersecurity
Date: Friday, January 19, 2018 1:22:27 PM

Message 1 of 2 per voicemail

From: Sandeep Gupta
Sent: Friday, August 25, 2017 12:15 PM
To: Raghu Santanam <Raghu.Santanam@asu.edu>
Cc: Sandeep Gupta <Sandeep.Gupta@asu.edu>; Michele Pfund <Michele.Pfund@asu.edu>; Angelina Saric <Angelina.Saric@asu.edu>; Sandeep Gupta <Sandeep.Gupta@asu.edu>
Subject: RE: Impact letter for W. P. Carey School of Business Information Systems - New Concentration in Cybersecurity

Dear Raghu,

We are fine with "Information Security Management" title.

Thanks!

Best,

-sg

Sandeep Gupta, Professor, SCIDSE/ASU (<http://engineering.asu.edu/cidse>)
Interim Director, School of Computing, Informatics, and Decision Systems Engg. (SCIDSE)
Director, IMPACT Lab (<http://impact.asu.edu>)
sandeep.gupta@asu.edu
480-965-3806 (v)
480-965-2751 (f)

From: Raghu Santanam
Sent: Friday, August 25, 2017 11:19 AM
To: Michele Pfund <Michele.Pfund@asu.edu>; Angelina Saric <Angelina.Saric@asu.edu>
Cc: Sandeep Gupta <Sandeep.Gupta@asu.edu>
Subject: Re: Impact letter for W. P. Carey School of Business Information Systems - New Concentration in Cybersecurity

Michele

I just spoke to Sandeep, he will send a response soon. Since we have been teaching a course titled Information Security in our programs for quite some time, this should not be a problem.

Raghu

From: Michele Pfund <Michele.Pfund@asu.edu>
Date: Friday, August 25, 2017 at 7:56 AM

To: Raghu Santanam <Raghu.Santanam@asu.edu>, Angelina Saric <Angelina.Saric@asu.edu>

Subject: RE: Impact letter for W. P. Carey School of Business Information Systems - New Concentration in Cybersecurity

Hi Raghu and Angie,

Just checking in – did Sandeep reply yesterday? We have our vote today in UGC and if we have approval on the name Information Security, I can let them know.

Michele