

# Information Systems BS (2017 - 2018) - Degree Requirements (120 Hrs.)

Name \_\_\_\_\_

Student ID \_\_\_\_\_

Advisor \_\_\_\_\_

Personal Email \_\_\_\_\_

## Associate of Science - Information Systems

**60 Cr Hrs including 30 General Education Required**

Information Systems Core	Cr.	GR	Sem
IST 14000	3		
IST 20300	3		
CS 16000 P: MA153/159	4		
IST 16000	3		
IST 26500 P: IST 16000	3		
IST 27000 P: IST 16000	3		
<i>Subtotal</i>	19		

### **Basic Supporting Courses**

BUS A 201	3		
ECON E200 or E201	3		
Approved Elective	3		
Approved Elective	2		
<i>Subtotal</i>	11		

### **General Education Requirements**

ENG W 131	3		
COM 11400	3		
MA 15300/15900 (or higher)	3		
Scientific Ways	3		
Social & Behavioral Ways (OLS 25200 Recommended)	3		
Humanistic & Artistic (PHIL 11100 recommended)	3		
Interdisciplinary or Creative Ways (3) (BUS W100 recommended)	3		

### **Approved courses from Category A or B**

ENG W23400	3		
COM 30300	3		
(CS 11200 Recommended)	3		

### Other Degree Requirements:

\* Only CS and IST courses with a grade of C or better may count towards degrees in the Department of Computer Science. Other courses, including Gen. Ed. may require a grade of C- or better (see catalog for final authority).

\* No more than 10 credit hours of "D" grades outside of General Education and CS/IST courses may count towards IS degrees. Other department requirements will take precedence.

\*CS 10600 or ETCS10600 will not count towards the BS Degree.

## Bachelor of Science - Information Systems

**120 Cr Hrs including 3 General Education Capstone (2)**

IS Topics Advanced Core	Cr.	GR	Sem
IST 34000 P: IST 27000	3		
IST 35000 P: IST 26500	3		
IST 37000 P: IST 27000	3		
IST 43000 P: IST 35000	3		
IST 44000 P: IST 27000	3		
IST 46600 P: IST 37000 or IS/CS 36600	3		
IST 46700 P: IS/CS Senior Standing	3		
<i>Subtotal</i>	21		

### **Advanced Supporting Courses**

MA 17500	3		
ECON E270 or STAT30100/51100	3		
MA 22900 P:MA 15300/14900	3		
BUS A202 or ECON E202	3		
Advanced Business Elective (1)	3		
Advanced Business Elective (1)	3		
<i>Subtotal</i>	18		

### **Minor or Certificate or Area of Depth**

Approved M/C/D Elective	3		
Approved M/C/D Elective	3		
Approved M/C/D Elective	3		
Approved M/C/D Elective	3		
Approved M/C/D Elective	3		
Approved M/C/D Elective	3		
<i>Subtotal</i>	15		
Approved Elective (IST45000 or IST 49200 recommended)	3		
<i>Subtotal</i>	3		

### **Category C. Capstone (for BS Degree)**

8. CS 30600 (2)	3		
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\* (1) Advanced Business electives are from the following courses: (see advisor for enrollment instructions in Doermer School of Business ) BUS D300 , BUS F301, BUS M301, BUS P301, BUS Z302

\* ENG W129/W130/R150/R190/P131 and MA 10900/11300/12400 do not count for credit towards the IS degrees. No credit toward graduation will be given for courses or sequences with overlapping content or for developmental courses (see IPFW Bulletin).

## Minors / Certificates / Depth Areas

It is expected that each Bachelor of Science Degree graduate will obtain one or more Minors, a Certificate, or Depth Area. Examples of areas include:

- \* Business Studies
- \* Computer Science
- \* Computer Networking
- \* Networking Administration
- \* Organizations, Leadership & Supervision (undergrad Cat.)

<b>MINOR in Computer Science<sup>1</sup></b>	<b>Cr.</b>	<b>GR</b>	<b>Sem</b>
CS 16000 Intro to Computer Science I	4		
CS 16100 Intro to Computer Science II	4		
CS 26000 Data Structures	3		
CS 2xx00 or above (recommend CS 36400)	3		
CS 2xx00 or above (recommend CS 36500)	3		
MA 17500 Intro Discrete Mathematics	3		
Subtotal	20		

<sup>1</sup>Database depth or other depth. MA 17500 already in IS degree. CS 274, CS 372, CS 360 and others could be considered. Consult with Dept of Computer Science for a minor.

<b>Business Studies Minor<sup>1</sup> / Depth<sup>2</sup></b>	<b>Cr</b>	<b>GR</b>	<b>Sem</b>
BUS A201 Princ. of Financial Accounting <sup>1**</sup>	3		
ECON E201 Intro to Microeconomics <sup>1**</sup>	3		
BUS M201 Marketing for the Small Business <sup>1**</sup>	3		
or BUS M301 Marketing Mangement <sup>1**</sup>	3		
BUS K201 The Computer in Business <sup>1**</sup>	3		
BUS Z302 Management of Organizations <sup>1**</sup>	3		
Choose one of the following for the Business Minor			
BUS L203 Commercial Law I	3		
BUS D300 International Bus Admin	3		
BUS F301 Financial Management	3		
BUS P301 Managing Operations	3		
BUS A328 Intro to Taxation	3		
BUS A317 Computer-Based accouting Sys	3		
Any 300 or 400 Level ECON course	3		
Total for Minor (12 must be from IPFW)	18		
Subtoal for Depth <sup>2</sup>	15		

You must earn a C- or better in each of the Business related courses for the Minor in Business (Non-Bus Majors)

<sup>1,2</sup>Check the prerequisites carefully to make sure all the re-reqs are met for the selected courses.

<sup>2</sup>For Business Depth, must select 15 credits on BUS or ECON Courses which are not used to satisfy course requirements for Basic or Advanced Supporting Courses

Consult with School of Business for a Business Studies Minor.

## 2016-2017 Degree Requirements

<b>Computer Networking Certificate</b>	<b>Cr.</b>	<b>GR</b>	<b>Sem</b>
CPET 18100 Computer Operating Systems	3		
CPET 28101 Local Area Networks & Mgmt.	3		
CPET 36400 Network Security	3		
ECET 26400 or CS 23200 (C Programming)	3		
CPET 35500 Data Comm. & Networking or CS 27400 or ECET 35500	4		
CPET 38400 Wide Area Network Design or CPET 49300 or CPET 49500 or CPET 49900 or CS 37400	3		
CPET 49900 Computer Engr. Tech. Project	1		
Subtotal	20		

Consult with Dept of CEIT for a Certificate

<b>Networking Administration (NA) Depth Area</b>	<b>Cr</b>	<b>GR</b>	<b>Sem</b>
CPET 18100 Computer Operating Systems	3		
CPET 28100 Local Area Networks	3		
CPET 36400 Networking Security	3		
CS 44500 Computer Security	3		
IST 45000 IT Audit & Controls	3		
Subtotal	15		

Consult with Dept of Computer Science for NA Depth Area.

## Gen Ed Courses Meeting All Learning Outcomes as of April 15, 2015

*Students must earn a grade of C- or better in each course used to satisfy the IPFW general education requirements.*

<b>B.4 Scientific Ways</b>	
ANTH B200	<b>Cr</b>
AST A100	3
BIOL 327	3
CHM 111	3
CHM 120	3
CHM 115	3
CHM 120	4
GEOG G107	3
GEOG G109	3
GEOL G100	3
GEOL G103	3
GEOL G104	3
GEOL G210	3
PHYS 105	3
PHYS 115	3
PHYS 152	3
PHYS 218	5
PHYS 220	4
	4

<b>B.5. Social and Behavioral Ways</b>	
ANTH E105	<b>Cr</b>
ANTH L200	3
COM 303	3
GERN G231	3
IET 105	3
LING L103	3
OLS 25200	3
OLS 26800	3
POLS Y101	3
POLS Y103	3
POLS Y107	3
POLS Y109	3
POLS Y212	3
POLS Y301	3
POLS Y319	3
PSY 120	3
PSY 235	3
PSY 240	3
PSY 335	3
PSY 350	3
PSY 369	3
SOC S161	3
SOC S163	3
SOC S317	3
WOST W210	3
	3

<b>B.6. Humanistic/Artistic Ways</b>	
<b>CLAS C205</b>	<b>3</b>
COM 248	3
Eng L101	3
Eng L102	3
Eng L202	3
Eng L250	3
ENG L251	3
Film K101	3
FINA H101	3
FINA H111	3
FINA H112	3
HIST H105	3
HIST H106	3
HIST H113	3
HIST H114	3
HIST H201	3
HIST H232	3
PHIL 11000	3
PHIL 11100	3
PHIL 30100	3
PHIL 30200	3
PHIL 30300	3
PHIL 30400	3
PHIL 31200	3
WOST W225	3

<b>B.7. Creative Ways</b>	
ARET 225	3
CS 112	3
ENG W103	3
ENG W203	3
FINA N108	3
FINA S165	3
FINA S239	3
JOUR J210	3
MUS L153	3
MUS Z140	3
THTR 13400	3

