

Course Number	Course Title	Credit Hours
<b>Math foundation/core (9 hours)</b>		
MAT 210	Brief Calculus (MA)	3
MAT 243	Discrete Mathematical Structures	3
STP 300	Introduction to Probability	3

<b>Applied computing foundation/core (15 hours)</b>		
ACO 101	Introduction to Computer Science (CS)	3
ACO 102	Principles of Computer Science (CS)	3
ACO 201	Data Structures and Algorithms (CS)	3
ACO 210	Introduction to Systems Programming (CS)	3
ACO 220	Introduction to Database Systems (CS)	3

**Concentration (21-22 hours)** Students will select one of the following concentrations: Digital Media & Graphic Design, Advanced Database Systems, or Network & Distributed Processing.

<i>Digital Media &amp; Graphic Design</i>	<i>Advanced Database Systems</i>	<i>Network &amp; Distributed Processing</i>
IAP 361 Digital Editing & Media Literacy (CS) (3) IAP 365 Digital Interactivity (3) IAP 466 Digital Interactivity, Advanced (3) IAP 368 Digital Graphic Technologies (3) IAP 468 Digital Graphic Applications (3) IAP 484 Internship (6)	ACO 320 Database Systems and Transaction Processing (3) ACO 420 Object Databases (3) ACO 421 Data Mining and Warehousing (3) ACO 422 XML and Databases (3) GCU 373 Introduction to Geographic Information Science (SG) (4) ACO 484 Internship OR ACO 499 Individualized Instruction (6)	ACO 330 Computer Networks (3) ACO 331 Network Design (3) ACO 430 Wireless Networks (3) ACO 431 Network Security (3) ACO 432 Distributed Systems (3) ACO 484 Internship OR ACO 499 Individualized Instruction (6)

**Liberal Arts Cluster (15 hours)**

Select four liberal arts courses in consultation with the department advisor. At least nine semester hours must be upper-division courses. Approved prefixes include but are not limited to: *AMS, ASB, ARS, CMN/COM, ECN, ENG, ETH, HIS, IAS, IAP, PHI, POL, PGS, SBS, SOC, and WST.*

		3
		3
		3
		3

At least one course focusing on ethics/diversity must be completed from the following:

CMN/COM 457	New Media	3
IAP 464	Media & Diversity	3
IAS 406	Moral Dilemmas (L/HU)	3

**GENERAL ELECTIVES (Hours needed to fulfill the 120 hour graduation requirement)**


For more information, visit our web site at <http://www.west.asu.edu/msac/>

Material on check sheet is unofficial and subject to change. Updated on 6/22/2006

Total Hours (120 Minimum)	Total Upper Division Hours (50 Minimum)	Community College Transfer Hours (64 Maximum)	Total Major Hours (60 Minimum)	Total ASUW Hours (30 Minimum)
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### UNIVERSITY AND COLLEGE REQUIREMENTS

**GENERAL STUDIES (35 hours minimum):** All students enrolled in a baccalaureate degree program must successfully complete minimum of 35 semester hours of approved general studies courses. Many General Studies courses are approved as satisfying more than one requirement. The following conditions govern the application of courses toward General Studies requirements:

1. A single course may be used to satisfy one core area and a maximum of two awareness area requirements.
2. A single course may be used to satisfy a maximum of two awareness area requirements.
3. A single course cannot be used to satisfy two core area requirements, even if it is approved for more than one core area.

<u>COURSE NUMBER AND TITLE</u>	<u>SEM/YR</u>	<u>SEM HR</u>	<u>GEN STDY</u>	<u>GRADE</u>	<u>UPPER DIV</u>
<b>FIRST YEAR COMPOSITION (3-6 hours):</b> ENG 101 and 102 <b>or</b> ENG 105 (grade of "C" or better required)					

**FIVE CORE AREAS** (Literacy, Mathematical Studies, Humanities, Social & Behavioral Sciences, and Natural Sciences)

**Literacy and Critical Inquiry (6 hours):** Requires at least three hours of upper division

			L		✓
			L		

**Mathematical Studies (6 hours):** Requires one course from Mathematics (MA) category and one from Statistics, Quantitative Reasoning, or Computer Applications (CS) categories. The MA course must have a grade of "C" or better to meet the college's mathematics requirement.

			MA		
			CS		

**Combined Humanities and Fine Arts/Social and Behavioral Sciences (15 hours):** Must complete nine (9) hours in one core area, six (6) in the other; must include at least one upper division course. See catalog for details.

			HU		
			HU		
			HU or SB		✓
			SB		
			SB		

**Natural Sciences (8 hours):** Requires two natural science laboratory courses: Natural Science – Quantitative (SQ) or Natural Science – General (SG). Of these, at least four hours must be taken from the SQ category. See catalog for restrictions.

			SQ		
			SQ/SG		

**THREE AWARENESS AREAS (0-9 hours):** Requires courses representing all 3 of the awareness areas: Cultural Diversity (C), Global Awareness (G), Historical Awareness (H).

			C		
			G		
			H		

#### Language & Cultures Requirement:

The New College of Interdisciplinary Arts and Sciences requires either:

1. Knowledge of one foreign language equivalent to the completion of two years study at the college level (through 202 or equivalent) **or**
2. Completion of a foreign language course at the 300 level, taught in the foreign language **or**
3. Completion of secondary education at a school in which the language of instruction is not English **or**
4. Completion of 6 hours of upper division courses that have a Global Awareness (G) or Cultural Diversity (C) designation, in addition to the courses used to meet the University General Studies requirements, **or**
5. Completion of two sequential semesters of course work in a current computer language. ACO 101 & 102 Fulfills this requirement.