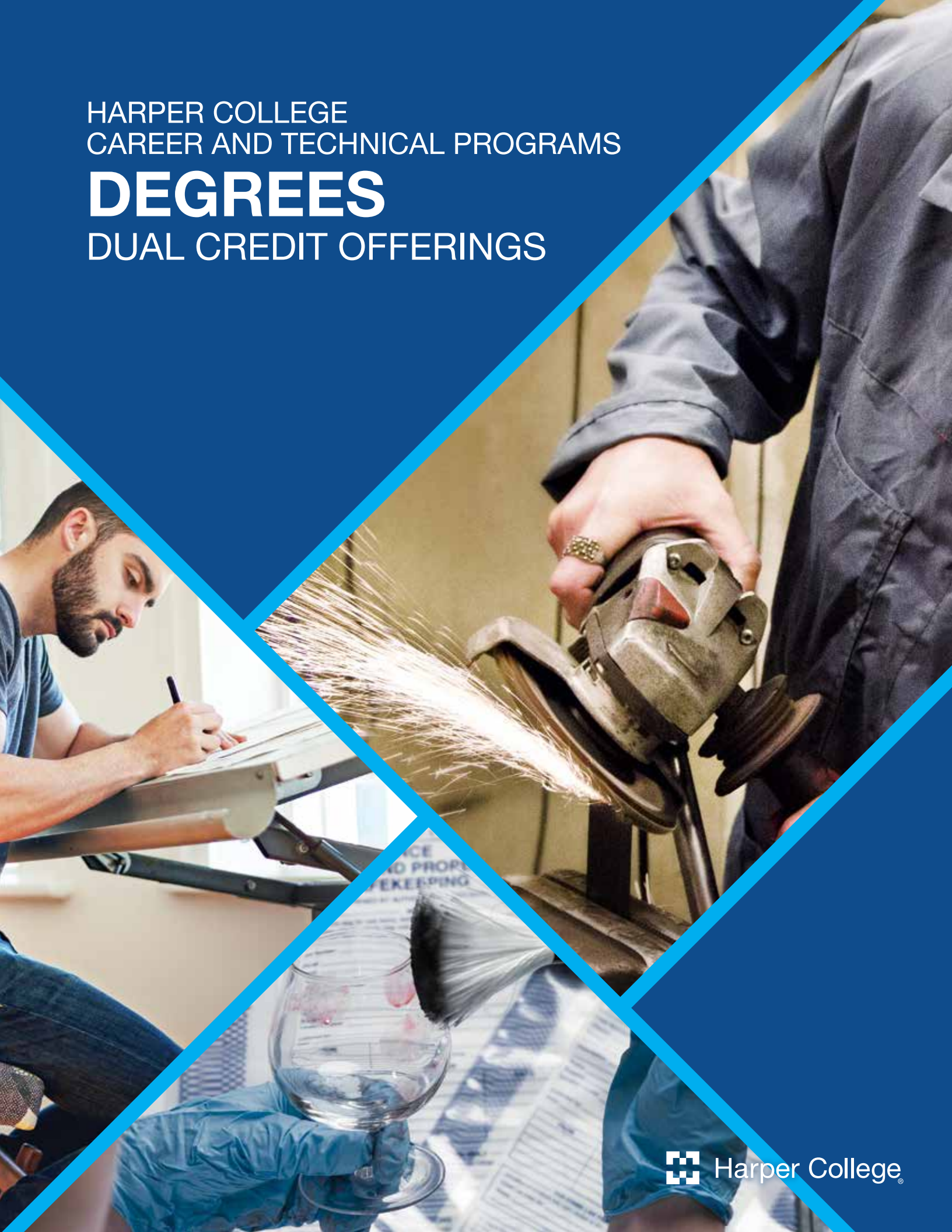


HARPER COLLEGE
CAREER AND TECHNICAL PROGRAMS

DEGREES

DUAL CREDIT OFFERINGS



HARPER COLLEGE
CAREER AND TECHNICAL PROGRAMS
Degrees

Accounting

Computer Information Systems – Information Systems
Computer Information Systems – Computer Support
Computer Information Systems – Network Administration
Electronics Engineering Technology
Early Childhood Education – Director
Early Childhood Education – Family Child Care
Early Childhood Education – Paraprofessional Educator
Early Childhood Education – Teacher
Fashion – Fashion Design
Fashion – Entrepreneurship
Fashion – Merchandising
Fire Science
Graphic Design – Graphic Design
Graphic Design – Package Design
Graphic Design – Print Graphics
Graphic Design – Web Design
Hospitality Management – Food Service Operations
Hospitality Management – Hotel Operations
HVAC-R Technology
Law Enforcement & Justice Administration
Maintenance Technology
Manufacturing Technology – Mechatronics
Manufacturing Technology – Metal Fabrication
Manufacturing Technology – Precision Machining
Manufacturing Technology – Supply Chain Management
Nursing
Paralegal Studies

The curriculum and courses presented in this brochure are subject to change without notice. Although every effort has been made to ensure the accuracy, currency and reliability of information, users are responsible for verifying current course information online at harpercollege.edu or contact your local school district for the most up to date information.

DUAL CREDIT ACCOUNTING ASSOCIATE DEGREE



Harper College's High School Partnership program allows high school students who are prepared for college level rigor, the opportunity to earn college credit while simultaneously satisfying high school graduation requirements. **The bolded courses are available as dual credit.** In this program, some of the college level courses are available at Harper College while some are available at the high schools. Contact your high school counselor to discuss your eligibility and necessary steps to get started as a Dual Credit student.

FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ACC 101	Introduction to Financial Accounting	4	Program Requirement
CAS 160	Introduction to Business Software Packages¹ (D211: Technology Applications; D220: Tech Certifications II)	3	Program Requirement
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Program Requirement
MGT 111	Introduction to Business Organization	3	Program Requirement
	Mathematics ²	3	Mathematics

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
ACC 102	Introduction to Managerial Accounting	3	Program Requirement
ACC 112	Quickbooks (D211: Quickbooks)	2	Program Requirement
ACC 155	Payroll Accounting	2	Program Requirement
ECO 211	Microeconomics or	3	Social and Behavioral Science
ECO 212	Macroeconomics	3	Communications
	Communications ³	3	Humanities
	Humanities ⁺	3	

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
ACC 201	Intermediate Accounting I	3	Program Requirement
ACC 211	Business Law I	3	Program Requirement
ACC 250	Individual Tax Accounting	3	Program Requirement
	Accounting elective ⁴	3	Program Requirement
	Business elective ⁵	3	Program Requirement

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
ACC 203	Introductory Cost Accounting	3	Program Requirement
	Accounting electives ⁴	6	Program Requirement
	Business elective ⁵	3	Program Requirement
	Social and Behavioral Science ⁺	3	Social and Behavioral Science

1 - Students may substitute three (3) total credit hours from CAS 105, CAS 115, CAS 125 or CAS 215.

2 - Only MGT 150 or MTH 103 or higher will satisfy this requirement.

3 - Students may elect ENG 101, ENG 102, ENG 130, or SPE 101.

4 - ACC electives (students must satisfy prerequisite for each course elected): ACC 202, ACC 251, ACC 253, ACC 254, ACC 265, ACC 295 (limit 4 hours).

5 - Business electives (students must satisfy prerequisites for each course elected): ACC 213, CIS 101, FIN 215, MGT 205, MGT 218, MGT 270, MGT 280, MKT 245, PHI 150.

+ - At least one of the Humanities or Social Science requirements must also meet the World Cultures and Diversity graduation requirement.

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DUAL CREDIT

COMPUTER INFORMATION SYSTEMS DEGREE - COMPUTER SUPPORT



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition, D220: English 101) Mathematics ¹	3 3	Communications Mathematics
NET 105	IT Fundamentals (D214: College IT Fundamentals)	3	Program Requirement
NET 111	A+ Hardware (D211: Computer Repair; D214: College A+ Hardware)	3	Program Requirement
NET 112	A+ Operating Systems Technologies (D211: Computer Repair; D214: College A+ Operating Systems Technologies)	3	Program Requirement

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
CAS 160	Introduction to Business Software Packages (D211: Technology Applications; D220: Tech Certifications II)	3	Program Requirement
ENG 102	Composition or		
ENG 130	Business Writing or		
SPE 101	Fundamentals of Speech Communication² (D211: Fundamentals of Speech Communication; D220: Speech 101) Humanities, Natural Science or Social/Behavioral Science ⁺	3 3	Communications Humanities, Natural Science or Social and Behavioral Science
NET 121	Computer Networking (D211: CISCO Networking Basics; D214: CISCO Networking Basics)	3	Program Requirement
NET 201	Service Desk and Service Management	3	Program Requirement

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
CIS 106	Computer Logic and Programming Technology	3	Program Requirement
	Computer Support elective ³	3	Program Requirement
	Humanities, Natural Science or Social/Behavioral Science ⁺	3	Humanities, Natural Science or Social/Behavioral Science
NET 240	Linux Administration	3	Program Requirement
NET 260	Windows Server Administration	3	Program Requirement

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
CAS 265	Advanced Business Software Packages	3	Program Requirement
CIS 143	Introduction to Database Systems	3	Program Requirement
	Computer Support elective ³	3	Program Requirement
	Humanities, Natural Science or Social/Behavioral Science ⁺	3	Humanities, Natural Science or Social and Behavioral Science
WEB 150	Web Foundations	3	Program Requirement

1 - Students must take at least three credit hours at the level of MTH 101 or above. MTH 165 or MTH 225 is recommended (Statistics).

2 - SPE 101 is recommended.

3 - Computer Support electives: Students must take six credit hours selected from: CIS 101, CIS 137, CIS 211(S), CIS 220, NET 122(F), NET 280(S).

+ - Students must take nine credit hours in a minimum of two of these areas; three hours must be in a course that meets the World Cultures and Diversity graduation requirement. See full list of AAS General Education Electives.

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DUAL CREDIT

COMPUTER INFORMATION SYSTEMS DEGREE - INFORMATION SYSTEMS



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
CAS 160	Introduction to Business Software Packages (D211: Technology Applications; D220: Tech Certifications II)	3	Program Requirement
CIS 101	Introduction to Computer Information Systems	3	Program Requirement
CIS 106	Computer Logic and Programming Technology	3	Program Requirement
ENG 101	Composition (D211: Expository Composition, D220: English 101)	3	Communications
	Mathematics ¹	3	Mathematics

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
CSC 121	Computer Science I	4	Program Requirement
CIS 143	Introduction to Database Systems	3	Program Requirement
ENG 102	Composition or		
SPE 101	Fundamentals of Speech Communication (D211: Fundamentals of Speech Communication; D220: Speech 101)	3	Communications
	Humanities, Natural Science or Social/Behavioral Science ⁺	3	Humanities, Natural Science or Social and Behavioral Science
WEB 150	Web Foundations	3	Program Requirement

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
	Humanities, Natural Science or Social/Behavioral Science ⁺	3	Humanities, Natural Science or Social and Behavioral Science
	Information Systems electives ²	7	Program Requirement
NET 121	Computer Networking (D211: CISCO Networking Basics; D214: CISCO Networking Basics) or		
NET 122	Internet Protocols (D211: CISCO Routers & Routing Basics; D214: CISCO Routers & Routing Basics)	3	Program Requirement
WEB 200	Web Scripting Foundations	3	Program Requirement

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
CIS 211	IT Project Management	3	Program Requirement
CIS 245	Data Analysis	3	Program Requirement
	Humanities, Natural Science or Social/Behavioral Science ⁺	3	Humanities, Natural Science or Social and Behavioral Science
	Information Systems electives ²	4	Program Requirement

1 - Students must take at least three credit hours in a mathematics course at the level of MTH 103 or above. MTH 225 is recommended.

2 - Students must take a combination of at least 11 credit hours during the third and fourth semesters, selected from any of the following: Business Emphasis - ACC 100, ACC 101, ACC 102, MGT 111; Information Systems Emphasis - CIS 206(S), CIS 216(F), CIS 220, CIS 230, CIS 243(F), CIS 244(S); Computer Science and Mathematics Emphasis - CSC 122, CSC 214, CSC 216, CSC 217, MTH 124, MTH 134, MTH 200, MTH 220, MTH 225; Information Assurance Emphasis - NET 280(S); Web Development Emphasis - WEB 110, WEB 235, WEB 250.

+ - Students must take nine credit hours in a minimum of two of these areas; three hours must be in a course that meets the World Cultures and Diversity graduation requirement. See full list of AAS General Education Electives.

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DUAL CREDIT

COMPUTER INFORMATION SYSTEMS DEGREE - NETWORK ADMINISTRATION



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition, D220: English 101)	3	Communications
	Mathematics ¹	3	Mathematics
NET 105	IT Fundamentals (D214: College IT Fundamentals)	3	Program Requirement
NET 111	A+ Hardware (D211: Computer Repair; D214 Computer Repair A+ Certification)	3	Program Requirement
NET 112	A+ Operating Systems Technologies (D211: Computer Repair; D214 Computer Repair A+ Certification)	3	Program Requirement

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
CAS 160	Introduction to Business Software Packages (D211: Technology Applications; D220: Tech Certifications II)	3	Program Requirement
ENG 102	Composition or		
ENG 130	Business Writing or		
SPE 101	Fundamentals of Speech Communication² (D211: Fundamentals of Speech Communication; D220: Speech 101)	3	Communications
	Humanities, Natural Science or Social/Behavioral Science ⁺	3	Humanities, Natural Science or Social and Behavioral Science
NET 121	Computer Networking (D211: CISCO Networking Basics; D214: CISCO Networking Basics)	3	Program Requirement
NET 201	Service Desk and Service Management	3	Program Requirement

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
CIS 106	Computer Logic and Programming Technology	3	Program Requirement
	Humanities, Natural Science or Social/Behavioral Science ⁺	3	Humanities, Natural Science or Social and Behavioral Science
NET 240	Linux Administration	3	Program Requirement
NET 260	Windows Server Administration	3	Program Requirement
	Network Administration elective ³	3	Program Requirement

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
	Humanities, Natural Science or Social/Behavioral Science ⁺	3	Humanities, Natural Science or Social and Behavioral Science
NET 270	Cisco Networking (CCNET)	3	Program Requirement
NET 280	IT Security	3	Program Requirement
NET 290	Cloud Computing	3	Program Requirement
	Network Administration elective ³	3	Program Requirement

1 - Students must take at least three credit hours at the level of MTH 101 or above. MTH 165 or MTH 225 is recommended (Statistics).

2 - SPE 101 is recommended.

3 - Computer Support electives: Students must take six credit hours selected from: CIS 101, CIS 137, CIS 211(S), CIS 220, NET 122(F), NET 280(S).

+ - Students must take nine credit hours in a minimum of two of these areas; three hours must be in a course that meets the World Cultures and Diversity graduation requirement. See full list of AAS General Education Electives.

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DUAL CREDIT

ELECTRONICS ENGINEERING TECHNOLOGY DEGREE



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ELT 101	DC Network Analysis	4	Program Requirement
ELT 110	Introductory Electronics (D211: Electronics Technology I; D214: Introductory Electronics; D220: Introductory Electronics)	4	Program Requirement
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
MTH 103	College Algebra (D211: Advanced Algebra 2/ Pre-Calculus)	3	Mathematics

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
CIS 106	Computer Logic and Programming Technology or		
NET 105	IT Fundamentals (D214: College IT Fundamentals)	3	Program Requirement
ELT 102	AC Network Analysis	4	Program Requirement
ELT 111	Semiconductor Devices and Circuits	2	Program Requirement
ELT 135	Optics and Sensors	2	Program Requirement
MTH 140	Precalculus	5	Mathematics

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
ELT 140	Introduction to Programmable Logic Controllers	2	Program Requirement
ELT 203	Digital Electronics (D211: PLTW Digital Electronics; D214: PLTW Digital Electronics; D220: PLTW Digital Electronics)	4	Program Requirement
	Humanities or Social and Behavioral Science ⁺	3	Humanities or Social and Behavioral Science
PHY 121	Introductory Physics I	5	Natural Science

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
ELT 207	Communications Systems	4	Program Requirement
ELT 215	Industrial Control Systems	4	Program Requirement
ELT 218	Embedded Microcontroller/Processor Systems	4	Program Requirement
	Electronics elective ¹	4	Program Requirement

1 - Electronics elective: ELT 103, ELT 204, ELT 240(S), or ELT 281.

+ - Students need to choose a course to meet this requirement that also meets the World Cultures and Diversity graduation requirement. See full list of AAS General Education Electives.

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DUAL CREDIT

EARLY CHILDHOOD EDUCATION DEGREE – DIRECTOR



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ECE 101	Introduction to Early Childhood Education (D211: Advanced Early Childhood Education; D214: Practicum in Early Childhood Education or College Introduction to Early Childhood Education)	3	Program Requirement
ECE 102	Child Development	3	Program Requirement
ECE 115	Principles of Early Childhood Curriculum	3	Program Requirement
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
	Mathematics ¹	3	Mathematics

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
ECE 226	Assessment and Guidance	3	Program Requirement
ECE 250	Health, Nutrition and Safety	3	Program Requirement
ECE 252	Child-Family-Community	3	Program Requirement
ENG 103	Technical and Report Writing or		
SPE 101	Fundamentals of Speech Communication (D211: Fundamentals of Speech Communication; D220: Speech 101)	3	Communications
MGT 205	Leadership	3	Program Requirement

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
ECE 253	Administration of Early Childhood Programs	3	Program Requirement
EDU 219	Students With Disabilities in School	3	Program Requirement
EDU 250	Introduction to Technology in Education	3	Program Requirement
	Natural Science ²	3	Natural Science
PSY 101	Introduction to Psychology	3	Social and Behavioral Science

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
ECE 254	Interpersonal Relationships in Early Child Education	1	Program Requirement
ECE 293	Early Childhood Director Practicum	3	Program Requirement
	ECE elective ³	3	Program Requirement
FSM 114	Food Standards and Sanitation (D211: Food Standards and Sanitation, D214: Culinary Arts/ ProStart 1)	2	Program Requirement
	Humanities ⁺	3	Humanities
MKT 245	Principles of Marketing	3	Program Requirement

1 - Students must take at least 3 credit hours in a mathematics course, MTH 065 or higher.

2 - Natural Science elective: BIO 101, BIO 103 or BIO 105.

3 - ECE elective: Any ECE course.

+ - Humanities elective: HST 210, HUM 110 or MUS 104. All courses meet the World Cultures and Diversity graduation requirement.

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DUAL CREDIT

EARLY CHILDHOOD EDUCATION DEGREE – FAMILY CHILD CARE



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ECE 101	Introduction to Early Childhood Education (D211: Advanced Early Childhood Education; D214: Practicum in Early Childhood Education or College Introduction to Early Childhood Education)	3	Program Requirement
ECE 102	Child Development	3	Program Requirement
ECE 140	Family Child Care Management	3	Program Requirement
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
	Mathematics ¹	3	Mathematics

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
ECE 111	Infant/Toddler Programs	3	Program Requirement
ECE 115	Principles of Early Childhood Curriculum	3	Program Requirement
ECE 226	Assessment and Guidance	3	Program Requirement
ECE 250	Health, Nutrition and Safety	3	Program Requirement
ENG 103	Technical and Report Writing or		
SPE 101	Fundamentals of Speech Communication (D211: Fundamentals of Speech Communication; D220: Speech 101)	3	Communications

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
ECE 209	Language Development and Activities for the Young Child	3	Program Requirement
ECE 252	Child-Family-Community	3	Program Requirement
ECE 291	Early Childhood Practicum I	3	Program Requirement
EDU 219	Students With Disabilities in School	3	Program Requirement
	Natural Science ²	3	Natural Science

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
ECE 235	Principles of School Age Care	3	Program Requirement
ECE 290	Family Child Care Practicum	3	Program Requirement
	ECE elective ³	3	Program Requirement
	Humanities ⁺	3	Humanities
PSY 101	Introduction to Psychology	3	Social and Behavioral Science

1 - Students must take at least 3 credit hours in a mathematics course, MTH 065 or higher.

2 - Natural Science elective: BIO 101, BIO 103 or BIO 105.

3 - ECE elective: ECE 210 or ECE 221.

+ - Humanities elective: HST 210, HUM 110 or MUS 104. All courses meet the World Cultures and Diversity graduation requirement.

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DUAL CREDIT

EARLY CHILDHOOD EDUCATION DEGREE – TEACHER



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ECE 101	Introduction to Early Childhood Education (D211: Advanced Early Childhood Education; D214: Practicum in Early Childhood Education or College Introduction to Early Childhood Education)	3	Program Requirement
ECE 102	Child Development	3	Program Requirement
ECE 115	Principles of Early Childhood Curriculum	3	Program Requirement
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
	Mathematics ¹	3	Mathematics

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
ECE 111	Infant/Toddler Programs	3	Program Requirement
ECE 226	Assessment and Guidance	3	Program Requirement
ECE 250	Health, Nutrition and Safety	3	Program Requirement
EDU 219	Students With Disabilities in School	3	Program Requirement
PSY 101	Introduction to Psychology	3	Social and Behavioral Science

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
ECE 209	Language Development and Activities for the Young Child	3	Program Requirement
ECE 210	Creative Activities for Young Children	3	Program Requirement
ECE 291	Early Childhood Practicum I	3	Program Requirement
ENG 103	Technical and Report Writing or		
SPE 101	Fundamentals of Speech Communication (D211: Fundamentals of Speech Communication; D220: Speech 101)	3	Communications
	Natural Science ²	3	Natural Science

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
ECE 252	Child-Family-Community	3	Program Requirement
ECE 221	Math and Science for the Young Child	3	Program Requirement
ECE 292	Early Childhood Practicum II	3	Program Requirement
	ECE elective ³	3	Program Requirement
	Humanities ⁺	3	Humanities

1 - Students must take at least 3 credit hours in a mathematics course, MTH 065 or higher.

2 - Natural Science elective: BIO 101, BIO 103, or BIO 105.

3 - ECE elective: Any ECE course.

+ - Humanities elective: HST 210, HUM 110 or MUS 104. All courses meet the World Cultures and Diversity graduation requirement.

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DUAL CREDIT

FASHION DESIGN ASSOCIATE DEGREE



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
FAS 100	Industrial Sewing Methods (D211: Fashion Construction Independent Study 2; D214: Fashion Construction; D220: Fashion III)	3	Program Requirement
FAS 101	Flat Pattern Design and Draping I	3	Program Requirement
FAS 105	Fashion Design Illustration I	3	Program Requirement
FAS 107	Textiles I	3	Program Requirement
FAS 112	Fashion Basics (D211: Design Independent Study 2; D214: Fashion Merchandising; D220: Fashion Design and Merchandising)	3	Program Requirement

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
FAS 102	Flat Pattern Design and Draping II	3	Program Requirement
FAS 104	Apparel Design and Construction	3	Program Requirement
FAS 110	Costume History ⁺	3	Program Requirement
FAS 113	Advanced Industrial Sewing Methods	3	Program Requirement
GRA 101	Introduction to Graphic Arts Technology	3	Program Requirement

SUMMER SESSION:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
	Mathematics ¹	3	Mathematics

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
FAS 109	Fashion Arts and Design	3	Program Requirement
FAS 201	Flat Pattern Design and Draping III	3	Program Requirement
	Humanities ²	3	Humanities
	Social and Behavioral Science	3	Social and Behavioral Science

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
FAS 204	Senior Collection	4	Program Requirement
FAS 208	Computer-Aided Patternmaking	3	Program Requirement
FAS 210	Fashion Design Illustration II	3	Program Requirement
	Humanities ²	3	Humanities

+ - This course meets the World Cultures and Diversity graduation requirement.

1 - A competency test, available in the Testing Center, may be utilized to meet the mathematics requirement (MTH 065 or higher). Students in this program who utilize the competency test must complete MKT 106 (Retail Merchandising.)

2 - ART 105 is recommended.

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DUAL CREDIT

FASHION ENTREPRENEURSHIP

ASSOCIATE DEGREE



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
FAS 100	Industrial Sewing Methods (D211: Fashion Construction Independent Study 2; D214: Fashion Construction; D220: Fashion III)	3	Program Requirement
FAS 101	Flat Pattern Design and Draping I	3	Program Requirement
FAS 107	Textiles I	3	Program Requirement
FAS 112	Fashion Basics (D211: Design Independent Study 2; D214: Fashion Merchandising; D220: Fashion Design and Merchandising)	3	Program Requirement

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
FAS 102	Flat Pattern Design and Draping II	3	Program Requirement
FAS 104	Apparel Design and Construction	3	Program Requirement
FAS 110	Costume History	3	Program Requirement
FAS 113	Advanced Industrial Sewing Methods	3	Program Requirement
GRA 101	Introduction to Graphic Arts Technology	3	Program Requirement

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
FAS 201	Flat Pattern Design and Draping III	3	Program Requirement
FAS 230	Fashion Forecasting	3	Program Requirement
MGT 150	Business Math	3	Mathematics
MGT 154	Entrepreneurship	3	Program Requirement
SPE 101	Fundamentals of Speech Communication (D211: Fundamentals of Speech Communication; D220: Speech 101)	3	Communications

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
FAS 208	Computer-Aided Patternmaking	3	Program Requirement
FAS 225	Global Sourcing Apparel/Textiles	3	Program Requirement
FAS 229	Promotion of Fashion	3	Program Requirement
	Humanities	3	Humanities
	Social and Behavioral Science	3	Social and Behavioral Science

+ - This course meets the World Cultures and Diversity graduation requirement.

1 - A competency test, available in the Testing Center, may be utilized to meet the mathematics requirement (MTH 065 or higher). Students in this program who utilize the competency test must complete MKT 106 (Retail Merchandising.)

2 - ART 105 is recommended.

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DUAL CREDIT

FASHION MERCHANDISING

ASSOCIATE DEGREE



Harper College's High School Partnership program allows high school students who are prepared for college level rigor, the opportunity to earn college credit while simultaneously satisfying high school graduation requirements. **The bolded courses are available as dual credit.** In this program, some of the college level courses are available at Harper College while some are available at the high schools. Contact your high school counselor to discuss your eligibility and necessary steps to get started as a Dual Credit student.

FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
FAS 110	Costume History	3	Program Requirement
FAS 112	Fashion Basics (D211: Design Independent Study 2; D214: Fashion Merchandising; D220: Fashion Design and Merchandising)	3	Program Requirement
GRA 101	Introduction to Graphic Arts Technology	3	Program Requirement
MGT 111	Introduction to Business Organization	3	Program Requirement

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
ART 105	Introduction to Visual Art	3	Humanities
FAS 107	Textiles I	3	Program Requirement
MGT 150	Business Math	3	Mathematics
MKT 106	Retail Merchandising	3	Program Requirement
PSY 101	Introduction to Psychology	3	Social and Behavioral Science

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
FAS 212	Visual Fashion Merchandising	3	Program Requirement
FAS 220	Apparel Analysis	3	Program Requirement
FAS 230	Fashion Forecasting	3	Program Requirement
MKT 140	Principles of Professional Selling	3	Program Requirement
SPE 101	Fundamentals of Speech Communication (D211: Speech D220: Speech 101)	3	Communications

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
FAS 116	Fashion Industries Career Practicum and Seminar (D214: Fashion Industry Career Practicum and Seminar; D220: Fashion Career Practicum)	3	Program Requirement
FAS 225	Global Sourcing Apparel/Textiles	3	Program Requirement
FAS 229	Promotion of Fashion	3	Program Requirement
MKT 245	Principles of Marketing	3	Program Requirement
	Social and Behavioral Science	3	Social and Behavioral Science

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DUAL CREDIT FIRE SCIENCE TECHNOLOGY DEGREE



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
FIS 100	Fundamentals of Fire and Emergency Services (D211: Introduction to Fire Science; D214: Introduction to Fire Science; D220: Fire Science)	3	Program Requirement
FIS 121	Fire Behavior and Combustion (D211: Fire Behavior and Combustion; D214: Fire behavior and Combustion; D220: Fire Science)	3	Program Requirement
FIS 122	Fire Prevention Principles	3	Program Requirement
	Mathematics ¹	3	Mathematics

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
FIS 103	Firefighting Strategies and Tactics	3	Program Requirement
FIS 104	Building Construction for Fire Protection	3	Program Requirement
FIS 132	Hazardous Materials	3	Program Requirement
PSY 101	Introduction to Psychology	3	Social and Behavioral Science
SPE 101	Fundamentals of Speech Communication (D211: Fundamentals of Speech Communication; D220: Speech 101)	3	Communications

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
FIS 102	Fire Service Management/Leadership	3	Program Requirement
FIS 145	Fire and Emergency Services Instructor	3	Program Requirement
FIS 260	Emergency Services Safety	3	Program Requirement
	Humanities ⁺	3	Humanities
	Natural Science		

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
	FIS electives ²	15	Program Requirement

1 - Students must take MTH 080 or above, or MGT 150 or MTH 225.

+ - Students need to choose a course to meet this requirement that also meets the World Cultures and Diversity graduation requirement.

2 - Choose at least 15 credit hours from the following courses: EMG 101, 103, 107, 253; FIS 106, 109, 200, 210, 212, 230, 240, 250, 270, 280+.

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DUAL CREDIT

GRAPHIC ARTS TECHNOLOGY ASSOCIATE DEGREE



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
GRA 101	Introduction to Graphic Arts Technology	3	Program Requirement
GRA 102	Graphic Arts Desktop Publishing	3	Program Requirement
GRA 103	Digital Imaging I (D214: Advanced Graphic Design)	3	Program Requirement
	Mathematics ¹	3	Mathematics

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 102	Composition	3	Communications
GRA 105	Color Management	3	Program Requirement
GRA 112	Digital Illustration I	3	Program Requirement
GRA 120	Graphic Design I	3	Program Requirement
GRA 130	Introduction to Photography	2	Program Requirement
	Social and Behavioral Science ⁺	3	Social and Behavioral Science

OPTION 1 - GRAPHIC DESIGN

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
ART 121	Design I	3	Humanities
GRA 111	Press Operations	3	Program Requirement
GRA 145	Wordpress and Mobile Technologies or		
WEB 150	Web Foundations	3	Program Requirement
GRA 229	Page Layout	3	Program Requirement
	Humanities or Social and Behavioral Science ⁺	3	Humanities or Social and Behavioral

Science

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
GRA 113	Digital Imaging II	3	Program Requirement
GRA 131	Digital Photography I	3	Program Requirement
GRA 220	Graphic Design II	3	Program Requirement
GRA 221	Graphic Portfolio Design	2	Program Requirement
	GRA elective ²	3	Program Requirement
MKT 245	Principles of Marketing	3	Program Requirement

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DUAL CREDIT

GRAPHIC ARTS TECHNOLOGY ASSOCIATE DEGREE



OPTION 2 - PACKAGE DESIGN

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
ART 121	Design I	3	Humanities
GRA 111	Press Operations	3	Program Requirement
GRA 229	Page Layout	3	Program Requirement
GRA 145	Wordpress and Mobile Technologies or		
WEB 150	Web Foundations	3	Program Requirement
	Humanities or Social and Behavioral Science*	3	Humanities or Social and Behavioral Science

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
GRA 213	Packaging, Finishing and Distribution	3	Program Requirement
GRA 214	Digital Illustration II	3	Program Requirement
GRA 220	Graphic Design II	3	Program Requirement
GRA 221	Graphic Portfolio Design	2	Program Requirement
GRA 222	Package Design	3	Program Requirement
GRA 230	Prepress Production	3	Program Requirement

OPTION 3 - PRINT GRAPHICS

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
ART 121	Design I	3	Humanities
GRA 111	Press Operations	3	Program Requirement
GRA 145	Wordpress and Mobile Technologies or		
WEB 150	Web Foundations	3	Program Requirement
GRA 229	Page Layout	3	Program Requirement
	Humanities or Social and Behavioral Science*	3	Humanities or Social and Behavioral Science

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
GRA 202	Advanced Color Management	3	Program Requirement
GRA 211	Project Management, Scheduling and Estimating or		
MGT 111	Introduction to Business Organization	3	Program Requirement
GRA 213	Packaging, Finishing and Distribution	3	Program Requirement
GRA 230	Prepress Production	3	Program Requirement
GRA 231	Variable Data Technologies	3	Program Requirement

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DUAL CREDIT

GRAPHIC ARTS TECHNOLOGY

– PRINT GRAPHICS ASSOCIATE DEGREE



OPTION 4 - WEB DESIGN

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
ART 121	Design I	3	Humanities
GRA 229	Page Layout	3	Program Requirement
	Humanities or Social and Behavioral Science*	3	Humanities or Social and Behavioral Science
WEB 110	Internet Fundamentals	3	Program Requirement
WEB 150	Web Foundations	3	Program Requirement

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
GRA 145	Wordpress and Mobile Technologies	3	Program Requirement
GRA 220	Graphic Design II	3	Program Requirement
GRA 221	Graphic Portfolio Design	2	Program Requirement
GRA 231	Variable Data Technologies	3	Program Requirement
WEB 170	Web Graphics and Prototyping	3	Program Requirement
WEB 180	Web Multimedia	3	Program Requirement

1 - A competency test, available in the Testing Center, may be utilized to meet the mathematics requirement (MTH 065 or higher with a grade of C or better). Students in this program who utilize the competency test to meet the mathematics requirement must complete an additional three credit-hour graphic arts course. See program coordinator for recommended courses.

2 - Graphic Arts electives: GRA 145, GRA 202, GRA 211, GRA 213, GRA 214, GRA 222, GRA 230, GRA 231, GRA 232, GRA 299, WEB 150

+ - One three credit-hour course from the Social and Behavioral Sciences electives for the AAS degree is required and one three credit-hour course from the Humanities or Social and Behavioral Science electives for the AAS degree is required. At least one of the Humanities or Social and Behavioral Sciences requirements must also meet the World Cultures and Diversity graduation requirement.

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DUAL CREDIT

HOSPITALITY MANAGEMENT – FOOD SERVICE OPERATIONS MANAGEMENT ASSOCIATE DEGREE



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
DIT 101	Fundamentals of Nutrition	3	Natural Science
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
FSM 111	Introduction to the Hospitality Industry (D214: Honors Culinary Arts/ ProStart 2)	3	Program Requirement
FSM 114	Food Standards and Sanitation (D211: Food Standards and Sanitation; D214: Culinary Arts/ProStart 1)	2	Program Requirement
FSM 115	Menu Planning	3	Program Requirement

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
CIS 100	Computer and Digital Literacy*	3	Program Requirement
ENG 102	Composition	3	Communications
FSM 109	Introduction to Food Prep/Production (D211: Culinary Arts; D214: Honors Culinary Arts/ ProStart 2)	4	Program Requirement
FSM 113	Dining Room Operations	3	Program Requirement
	Mathematics ¹	3	Mathematics

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
FSM 212	Hospitality Supervision	3	Program Requirement
FSM 215	Restaurant Layout and Equipment*	3	Program Requirement
FSM 216	Introduction to Wine, Spirits and Beverage Management*	3	Program Requirement
FSM 220	Hospitality Promotions*	3	Program Requirement
PSY 101	Introduction to Psychology	3	Social and Behavioral Science

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
FSM 211	Purchasing and Storage	3	Program Requirement
FSM 213	Seminar and Internship	3	Program Requirement
FSM 214	Hospitality Operations Analysis	3	Program Requirement
FSM 230	Hospitality Law and Risk Management*	3	Program Requirement
	Humanities ⁺	3	Humanities

* - At least 15 hours of electives are required. The coordinator recommends the courses with an asterisk (*), however FSM 299 is an option per the catalog.

1 - A competency test, available in the Assessment and Testing Center, may be utilized to meet the mathematics elective requirement. Students in this program who utilized the competency test to meet the mathematics requirement must complete a three credit-hour elective approved by the program coordinator.

+ - Students must choose a Humanities course that meets the World Cultures and Diversity graduation requirement.

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DUAL CREDIT

HOSPITALITY MANAGEMENT – HOTEL OPERATIONS MANAGEMENT ASSOCIATE DEGREE



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
FSM 111	Introduction to the Hospitality Industry (D214: Honors Culinary Arts/ ProStart 2)	3	Program Requirement
FSM 114	Food Standards and Sanitation (D211: Food Standards and Sanitation; D214: Culinary Arts/ProStart 1)	2	Program Requirement
FSM 115	Menu Planning	3	Program Requirement
PSY 101	Introduction to Psychology	3	Social and Behavioral Science

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
DIT 101	Fundamentals of Nutrition	3	Natural Science
ENG 102	Composition	3	Communications
FSM 109	Introduction to Food Prep/Production (D211: Culinary Arts; D214: Honors Culinary Arts/ ProStart 2)	4	Program Requirement
FSM 120	Front Office Operations*	3	Program Requirement
	Mathematics ¹	3	Mathematics

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
CIS 100	Computer and Digital Literacy*	3	Program Requirement
FSM 113	Dining Room Operations	3	Program Requirement
FSM 210	Hospitality Facility Maintenance*	3	Program Requirement
FSM 212	Hospitality Supervision	3	Program Requirement
FSM 220	Hospitality Promotions*	3	Program Requirement

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
FSM 211	Purchasing and Storage	3	Program Requirement
FSM 213	Seminar and Internship	3	Program Requirement
FSM 214	Hospitality Operations Analysis	3	Program Requirement
FSM 230	Hospitality Law and Risk Management*	3	Program Requirement
	Humanities ⁺	3	Humanities

* - At least 15 credits of electives are required. The coordinator recommends the courses with an asterisk (*), however FSM 299 is an option per the catalog.

1 - A competency test, available in the Assessment and Testing Center, may be utilized to meet the mathematics requirement. Students in this program who utilize the competency test to meet the mathematics requirement must complete a three credit-hour elective approved by the program coordinator.

+ - Students must choose a Humanities course that meets the World Cultures and Diversity graduation requirement.

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DUAL CREDIT

HVAC-R – REFRIGERATION AND AIR CONDITIONING TECHNOLOGY ASSOCIATE DEGREE



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ELT 110	Introductory Electronics (D211: Electronics Technology I; D214: Introductory Electronics; D220: Introductory Electronics)*	4	Program Requirement
HVA 101	Refrigeration Fundamentals (D211: Refrigeration Fundamentals; D214: Refrigeration Fundamentals; D220: Refrigeration Fundamentals)	3	Program Requirement
HVA 103	Heating Principles (D211: Heating Principles; D214: Heating Principles; D220: Heating Principles)	3	Program Requirement
HVA 104	Residential Comfort Systems	3	Program Requirement
MTH 097	Basic Technical Mathematics ¹	3	Mathematics

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
HVA 102	Refrigeration Systems (D211: Refrigeration Systems; D214 Refrigeration Systems)	3	Program Requirement
HVA 105	Heating and Cooling Controls (D211: Heating and Cooling Controls; D214 Heating and Cooling Controls)	3	Program Requirement
HVA 108	Domestic Refrigeration Appliances	3	Program Requirement
	Natural Science ²	3	Natural Science

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
ELT 144	AC and DC Motors	2	Program Requirement
ENG 103	Technical and Report Writing	3	Communications
HVA 106	Pneumatic Controls Systems	3	Program Requirement
HVA 107	Commercial Air Conditioning Systems	3	Program Requirement
HVA 109	Commercial Heating Systems	3	Program Requirement
HVA 110	Blue Prints and Plans for HVAC	2	Program Requirement

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
ELT 145	Variable Frequency Drives	2	Program Requirement
HVA 200	HVAC/R Mechanical Codes and Standards	2	Program Requirement
HVA 201	Refrigeration System Design	2	Program Requirement
HVA 203	Load Calculations	2	Program Requirement
HVA 204	Air Distribution	2	Program Requirement
HVA 205	Customer Service and Support	1	Program Requirement
	Humanities or Social and Behavioral Science ⁺	3	Social and Behavioral Science

1 - Students may take MTH 097, MTH 101, MTH 103 or higher.

2 - One of the Communications electives must be ENG 101 or ENG 130. The second communications elective must be chosen from one of the following: ENG 100, ENG 102, ENG 103 or SPE 101. Students are encouraged to meet with a Student Development faculty counselor for advice in the selection of courses.

+ - At least one of the Humanities or Social and Behavioral Science requirements must also meet the World Cultures and Diversity graduation requirement.

* - **ELT 110 must be taken prior or in conjunction to HVA 101 or HVA 103.**

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DUAL CREDIT

LAW ENFORCEMENT & JUSTICE ADMINISTRATION - FORENSIC SCIENCE ASSOCIATE DEGREE



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
FIS 121	Fire Behavior and Combustion	3	Program Requirement
LEJ 101	Introduction to Criminal Justice (D211: Introduction to Criminal Justice; D214: Introduction to Criminal Justice; D220: Intro to Criminal Justice)	3	Program Requirement
LEJ 116	Forensics I (D211: Introduction to Forensics; D220: Forensics)	3	Program Requirement
	Mathematics ¹	3	Mathematics

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
CHM 100	Chemistry for the Health Sciences or	4	Natural Sciences
CHM 110	Fundamentals of Chemistry	4	Natural Sciences
ENG 103	Technical and Report Writing	3	Communications
LEJ 202	Criminal Procedures	3	Program Requirement
LEJ 217	Forensics II	4	Program Requirement

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
ANT 215	Introduction to Forensic Anthropology	3	Social and Behavioral Science
CIS 101	Introduction to Computer Information Systems	3	Program Requirement
FIS 132	Hazardous Materials	3	Program Requirement
FIS 210	Fire-Arson Investigation ²	3	Program Requirement
LEJ 218	Forensics III	4	Program Requirement

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
LEJ 200	Leadership and Ethics for Law Enforcement	3	Program Requirement
LEJ 216	Investigative Process	3	Program Requirement
LEJ 295	Forensics IV	3	Program Requirement
PHI 101	Critical Thinking	3	Humanities
SOC 101	Introduction to Sociology ⁺	3	Social and Behavioral Science

1 - Students must take at least three credit hours in a mathematics course at the level MTH080 or above.

2 - Prerequisite of FIS 100 will be waived for Forensic Science students.

+ - This course meets the World Cultures and Diversity graduation requirement.

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DUAL CREDIT

LAW ENFORCEMENT & JUSTICE ADMINISTRATION ASSOCIATE DEGREE



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
LEJ 101	Introduction to Criminal Justice (D211: Introduction to Criminal Justice; D214: Introduction to Criminal Justice; D220: Intro to Criminal Justice)	3	Program Requirement
LEJ 116	Forensics I (D211: Introduction to Forensics; D220: Forensics)	3	Program Requirement
	Mathematics ¹	3	Mathematics
SOC 101	Introduction to Sociology ⁺	3	Social and Behavioral Science

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
LEJ 201	Criminal Law	3	Program Requirement
LEJ 205	Juvenile Justice	3	Program Requirement
PHI 101	Critical Thinking	3	Humanities
PSY 101	Introduction to Psychology	3	Social and Behavioral Science
SPE 101	Fundamentals of Speech Communication (D211: Fundamentals of Speech Communication; D220: Speech 101)	3	Communications

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
LEJ 104	Corrections (D211: Introduction to Corrections; D214: Introduction to Corrections)	3	Program Requirement
LEJ 135	Patrol Procedures	4	Program Requirement
LEJ 210	Criminology	3	Program Requirement
LEJ 214	Community Policing	3	Program Requirement
LEJ 216	Investigative Process	3	Program Requirement

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
LEJ 200	Leadership and Ethics for Law Enforcement	3	Program Requirement
LEJ 202	Criminal Procedures	3	Program Requirement
LEJ 230	Organized Crime	3	Program Requirement
	EMG, KIN or LEJ electives ²	6	Program Requirement

1 - A competency test, available in the Assessment and Testing Center, may be utilized to meet the mathematics requirement (MTH 065). Students who utilize the competency test to meet the mathematics requirement must complete an additional three credit hour elective.

+ - This course meets the World Cultures and Diversity graduation requirement.

2 - Electives: EMG 131, EMG 231, KIN 100, LEJ 107, LEJ 138, LEJ 140, LEJ 217, LEJ 218, LEJ 240, LEJ 295, LEJ 299.

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DUAL CREDIT

MAINTENANCE TECHNOLOGY

ASSOCIATE DEGREE



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All MNT courses are offered in an 8-week scheduling format.

FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
MFT 102	Introduction to Manufacturing and Safety (D211: Advanced Manufacturing Level 2; D214: Advanced Machine Technology)	4	Program Requirement
MFT 134	Print Reading for Industry	3	Program Requirement
MNT 135	Plumbing Systems Maintenance	3	Program Requirement
MTH 097	Basic Technical Mathematics ¹	3	Mathematics
WLD 110	Welding I	3	Program Requirement

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
ELT 143	Commercial Wiring	2	Program Requirement
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
MFT 109	Introduction to Manufacturing Maintenance (D211: Advanced Manufacturing Level 3)	2	Program Requirement
MNT 228	Small Equipment Maintenance	2	Program Requirement
WLD 210	Welding II	3	Program Requirement

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
HVA 101	Refrigeration Fundamentals (D211: Refrigeration Fundamentals; D214: Refrigeration Fundamentals; D220: Refrigeration Fundamentals)	3	Program Requirement
MFT 105	Machining Processes I (D211: Advanced Manufacturing Level I; D214: Advanced Machine Technology)	4	Program Requirement
MFT 120	Machining Processes II (D211: Advanced Manufacturing Level 1; D214: Honors Advanced CNC Manufacturing)	4	Program Requirement
MNT 235	Maintenance Troubleshooting Skills	3	Program Requirement
	Communications ²	3	Communications

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
MNT 255	Belts/Bearings and Mechanical Drives	2	Program Requirement
PSC 270	Global Politics ⁺	3	Social and Behavioral Science
SPE 101	Fundamentals of Speech Communication (D211: Fundamentals of Speech Communication; D220: Speech 101)	3	Communications
	Technical electives ³	7	Program Requirement

1 - Students may take MTH 097, MTH 101, MTH 103 or higher.

2 - Choose either ENG 103 or ENG 130.

+ - This course meets the World Cultures and Diversity graduation requirement.

3 - Technical electives: Select courses not listed as required that have one of the following prefixes: ELT, MFT, MNT, SCM or WLD.

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DUAL CREDIT

MANUFACTURING TECHNOLOGY

– MECHATRONICS/AUTOMATION ASSOCIATE DEGREE



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
MFT 102	Introduction to Manufacturing and Safety (D211: Advanced Manufacturing Level 2; D214: Advanced Machine Technology)	4	Program Requirement
MFT 104	Quality and Measurement (D211: Advanced Manufacturing Level 2; D214: Honors Advanced CNC Machining)	2	Program Requirement
MFT 108	Manufacturing Processes (D211: Advanced Manufacturing Level 3)	3	Program Requirement
MFT 109	Introduction to Manufacturing Maintenance (D211: Advanced Manufacturing Level 3)	2	Program Requirement
MTH 097	Basic Technical Mathematics ¹	3	Mathematics

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
ELT 110	Introductory Electronics (D211: Electronics Technology I; D214: Introductory Electronics; D220: Introductory Electronics)	4	Program Requirement
ELT 120	Introductory Industrial Electronics Maintenance	2	Program Requirement
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
MFT 119	Manufacturing Internship (D214: Internship)	2	Program Requirement
	Technical electives ²	5	Program Requirement

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
ELT 140	Introduction to Programmable Logic Controllers	2	Program Requirement
ELT 143	Commercial Wiring	2	Program Requirement
	ELT electives ³	4	Program Requirement
	Social and Behavioral Science ⁺	6	Social and Behavioral Science

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
	Communications ⁴	3	Communications
ELT 215	Industrial Control Systems (D214: Industrial Control Systems; D220: Electronics I)	4	Program Requirement
	ELT electives ³	4	Program Requirement
	Humanities ⁺	3	Humanities

1 - Students may take MTH 097, MTH 101, MTH 103, or higher.

2 - Select courses not listed as required that have one of the following prefixes: ELT, MFT, MNT, SCM, or WLD.

3 - Select from the following courses: ELT 125, ELT 135, ELT 144, ELT 145, ELT 146, ELT 147, ELT 161.

+ - At least one course from the Humanities or Social and Behavioral Science must also meet the World Cultures and Diversity graduation requirement.

4 - Choose from ENG 103 or SPE 101.

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DUAL CREDIT

MANUFACTURING TECHNOLOGY

– METAL FABRICATION ASSOCIATE DEGREE



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FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
MFT 102	Introduction to Manufacturing and Safety (D211: Advanced Manufacturing Level 2; D214: Advanced Machine Technology)	4	Program Requirement
MFT 104	Quality and Measurement (D211: Advanced Manufacturing Level 2; D214: Honors Advanced CNC Manufacturing)	2	Program Requirement
MFT 108	Manufacturing Processes (D211: Advanced Manufacturing Level 3)	3	Program Requirement
MFT 109	Introduction to Manufacturing Maintenance (D211: Advanced Manufacturing Level 3)	2	Program Requirement
MTH 097	Basic Technical Mathematics ¹	3	Mathematics

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
MFT 119	Manufacturing Internship (D214: Internship)	2	Program Requirement
MFT 134	Print Reading for Industry	3	Program Requirement
	Social and Behavioral Science ⁺	6	Social and Behavioral Science
WLD 110	Welding I	3	Program Requirement
WLD 210	Welding II	3	Program Requirement

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
WLD 211	Welding III	4	Program Requirement
WLD 212	Welding IV	4	Program Requirement
WLD 240	Cutting Processes	3	Program Requirement

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
WLD 225	Advanced Blueprint Reading	2	Program Requirement
WLD 245	Welding Fabrication I	4	Program Requirement
WLD 250	Welding Fabrication II	4	Program Requirement
	Humanities ⁺	3	Humanities
	Communications ²	3	Communications

1 - Students may take MTH 097, MTH 101, MTH 103, or higher.

+ - At least one of the Humanities or Social and Behavioral Science courses must also meet the World Cultures and Diversity graduation requirement.

2 - Choose from ENG 103 or SPE 101.

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DUAL CREDIT

MANUFACTURING TECHNOLOGY

– PRECISION MACHINING ASSOCIATE DEGREE



Harper College's High School Partnership program allows high school students who are prepared for college level rigor, the opportunity to earn college credit while simultaneously satisfying high school graduation requirements. **The bolded courses are available as dual credit.** In this program, some of the college level courses are available at Harper College while some are available at the high schools. Contact your high school counselor to discuss your eligibility and necessary steps to get started as a Dual Credit student.

FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
MFT 102	Introduction to Manufacturing and Safety (D211: Advanced Manufacturing Level 2; D214: Advanced Machine Technology)	4	Program Requirement
MFT 104	Quality and Measurement (D211: Advanced Manufacturing Level 2; D214: Honors Advanced CNC Manufacturing)	2	Program Requirement
MFT 108	Manufacturing Processes (D211: Advanced Manufacturing Level 3)	3	Program Requirement
MFT 109	Introduction to Manufacturing Maintenance (D211: Advanced Manufacturing Level 3)	2	Program Requirement
MTH 097	Basic Technical Mathematics ¹	3	Mathematics

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
MFT 105	Machining Processes I (D211: Advanced Manufacturing Level I; D214: Advanced Machine Technology)	4	Program Requirement
MFT 119	Manufacturing Internship (D214: Internship)	2	Program Requirement
MFT 120	Machining Processes II (D211: Advanced Manufacturing Level 1; D214: Honors Advanced CNC Manufacturing)	4	Program Requirement
MFT 123	Introduction to CNC Machining (D211: Advanced Manufacturing Level 2)	4	Program Requirement

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
	Communications ²	3	Communications
MFT 125	CNC Lathe Operation and Programming	4	Program Requirement
MFT 128	CNC Mill Operation and Programming	4	Program Requirement
	Social and Behavioral Science ⁺	6	Social and Behavioral Science

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
	Humanities ⁺	3	Humanities
MFT 265	Properties of Materials	2	Program Requirement
	Technical electives ³	5	Program Requirement
MFT 134	Print Reading for Industry	3	Program Requirement

1 - Students may take MTH 097, MTH 101, MTH 103, or higher.

2 - Choose from ENG 103 or SPE 101.

+ - At least one of the Humanities or Social and Behavior Science courses must also meet the World Cultures and Diversity graduation requirement.

3 - Select courses not listed as required that have one of the following prefixes: ELT, MFT, MNT, SCM, or WLD.

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DUAL CREDIT

MANUFACTURING TECHNOLOGY

– SUPPLY CHAIN MANAGEMENT ASSOCIATE DEGREE



Harper College's High School Partnership program allows high school students who are prepared for college level rigor, the opportunity to earn college credit while simultaneously satisfying high school graduation requirements. **The bolded courses are available as dual credit.** In this program, some of the college level courses are available at Harper College while some are available at the high schools. Contact your high school counselor to discuss your eligibility and necessary steps to get started as a Dual Credit student.

FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
MFT 102	Introduction to Manufacturing and Safety (D211: Advanced Manufacturing Level 2; D214: Advanced Machine Technology)	4	Program Requirement
MFT 104	Quality and Measurement (D211: Advanced Manufacturing Level 2; D214: Honors Advanced CNC Machining)	2	Program Requirement
MFT 108	Manufacturing Processes (D211: Advanced Manufacturing Level 3)	3	Program Requirement
MFT 109	Introduction to Manufacturing Maintenance (D211: Advanced Manufacturing Level 3)	2	Program Requirement
MTH 097	Basic Technical Mathematics ¹	3	Mathematics

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
SCM 101	Supply Chain Management	3	Program Requirement
SCM 122	Inventory Management	3	Program Requirement
SCM 126	Demand Planning	3	Program Requirement
	Social and Behavioral Science ⁺	3	Social and Behavioral Science

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
	Communications ²	3	Communications
	Humanities ⁺	3	Humanities
SCM 120	Production Control	3	Program Requirement
SCM 226	Advanced Planning and Integration	3	Program Requirement
	Social and Behavioral Science ⁺	3	Social and Behavioral Science

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
MFT 119	Manufacturing Internship (D214: Internship)	2	Program Requirement
SCM 123	Transportation	3	Program Requirement
SCM 124	Warehouse Operations	3	Program Requirement
SCM 125	Procurement	3	Program Requirement
	Technical electives ³	5	Program Requirement

1 - Students may take MTH 097, MTH 101, MTH 103, or higher.

+ - At least one of the Humanities or Social and Behavioral Science courses must also meet the World Cultures and Diversity graduation requirement.

2 - Choose from ENG 103 or SPE 101.

3 - Select courses not listed as required that have one of the following prefixes: ELT, MFT, MNT, SCM or WLD.

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DUAL CREDIT NURSING DEGREE (LIMITED ENROLLMENT)



Harper College's High School Partnership program allows high school students who are prepared for college level rigor, the opportunity to earn college credit while simultaneously satisfying high school graduation requirements. **The bolded courses are available as dual credit.** In this program, some of the college level courses are available at Harper College while some are available at the high schools. Contact your high school counselor to discuss your eligibility and necessary steps to get started as a Dual Credit student.

PREREQUISITES:

A grade of C or better in all coursework is required for all students.

Course Number	Course Title	Credits	Course Category
BIO 160	Human Anatomy¹ (D214: College Human Anatomy)	4	Natural Science
BIO 161	Human Physiology¹ (D214: College Human Physiology)	4	Natural Science
ENG 101	Composition (D211: Expository Composition; D220: English 101)	3	Communications
PSY 101	Introduction to Psychology	3	Social and Behavioral

Harper College's High School Partnership program allows high school juniors and seniors an opportunity to earn college credit, and simultaneously satisfy high school graduation requirements. In this program, students can take college level courses on the Harper campus or in their high school. The highlighted classes are available for juniors and seniors to take while in high school.

FIRST SEMESTER:

A grade of C or better in all coursework is required for all students.

Course Number	Course Title	Credits	Course Category
BIO 130	Microbiology ¹	4	Natural Science
NUR 110	Nursing Concepts, Roles and Practice	3	Program Requirement
NUR 112	Fundamentals of Nursing Practice	3	Program Requirement
NUR 180	Pathophysiology	3	Program Requirement
PSY 228	Psychology of Human Development	3	Social and Behavioral Science

SECOND SEMESTER:

A grade of C or better in all coursework is required for all students.

Course Number	Course Title	Credits	Course Category
HSC 201	Advanced Pharmacology ²	2	Program Requirement
NUR 140	Adult Health Concepts I	2	Program Requirement
NUR 141	Adult Health Clinical I	2	Program Requirement
NUR 150	Psychosocial Concepts	2	Program Requirement
NUR 151	Psychosocial Concepts Clinical	2	Program Requirement
NUR 210	Physical Assessment	2	Program Requirement

ELECTIVE (Optional):

A grade of C or better in all coursework is required for all students.

Course Number	Course Title	Credits	Course Category
NUR 195	Transition to Professional Nursing ³	2	Program Requirement
NUR 196	Transition to Professional Nursing Clinical ³	1	Program Requirement

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THIRD SEMESTER:

A grade of C or better in all coursework is required for all students.

Course Number	Course Title	Credits	Course Category
NUR 201	Child Bearing Concepts	2	Program Requirement
NUR 202	Adult Health Concepts II	2	Program Requirement
NUR 205	Pediatric Health Concepts	2	Program Requirement
NUR 220	Child Bearing Clinical	2	Program Requirement
NUR 240	Adult Health Clinical II	2	Program Requirement
NUR 250	Pediatric Health Clinical	2	Program Requirement
SPE 101	Fundamentals of Speech Communication (D211: Fundamentals of Speech Communication; D220: Speech 101)	3	Communications

FOURTH SEMESTER:

A grade of C or better in all coursework is required for all students.

Course Number	Course Title	Credits	Course Category
NUR 216	Adult Health Concepts III	2	Program Requirement
NUR 218	Role Transition Seminar	1	Program Requirement
NUR 260	Adult Health Clinical III	2	Program Requirement
NUR 280	Role Transition Practicum	3	Program Requirement
	Social and Behavioral Science or Humanities ⁺	3	Social and Behavioral Science or Humanities

1 - Must be completed no earlier than five years prior to beginning the Nursing program.

2 - Must be completed no earlier than two years prior to beginning the Nursing program.

3 - These courses are required for LPNs transitioning into RN program.

+ - Students need to choose a course to meet this requirement that also meets the World Cultures and Diversity graduation requirement.

DUAL CREDIT PARALEGAL STUDIES ASSOCIATE DEGREE



Harper College's High School Partnership program allows high school students who are prepared for college level rigor, the opportunity to earn college credit while simultaneously satisfying high school graduation requirements. **The bolded courses are available as dual credit.** In this program, some of the college level courses are available at Harper College while some are available at the high schools. Contact your high school counselor to discuss your eligibility and necessary steps to get started as a Dual Credit student.

FIRST SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 101	Composition (D211: Expository Composition; D220: English 101) Humanities ¹	3 3	Communications Humanities
PLS 101	Introduction to Paralegal Studies (D214: College Introduction to Paralegal Studies)	3	Program Requirement
PSY 101	Introduction to Psychology	3	Social and Behavioral Science
SOC 101	Introduction to Sociology ⁺	3	Social and Behavioral Science

SECOND SEMESTER:

Course Number	Course Title	Credits	Course Category
ENG 103	Technical and Report Writing	3	Communications
PLS 102	Fundamentals of Legal Research (D214: College Fundamentals of Legal Research)	3	Program Requirement
PLS 103	Litigation	3	Program Requirement
PLS 105	Family Law	3	Program Requirement
PLS 123	Real Property Law	3	Program Requirement

THIRD SEMESTER:

Course Number	Course Title	Credits	Course Category
	Mathematics ²	3	Mathematics
PLS 201	Tort and Insurance Law	3	Program Requirement
PLS 205	Contract Law	3	Program Requirement
PLS 210	Corporate and Securities Law	3	Program Requirement
PSC 101	American Politics and Government	3	Social and Behavioral Science

FOURTH SEMESTER:

Course Number	Course Title	Credits	Course Category
CAS 160	Introduction to Business Software Packages (D211: Technology Applications I & II; D220: Tech Certifications II) or LEJ or PLS electives ³	3 6	Program Requirement Program Requirement
PLS 208	Internship in Paralegal Studies ⁴ or		
PLS 215	Today's Law Office ⁴	3	Program Requirement
PLS 223	Computer-Assisted Legal Research	3	Program Requirement

1 - Humanities electives must be chosen from the following ABA-approved humanities, listed with the requirements for AAS degrees: ART 105, ART 114, ART 130, ART 131, ART 132, any FRN, any GER, any HST, any HUM, any JPN, any LIT, LNG 105, MUS 103, MUS 104, MUS 120, any PHI but not PHI 160, any SPA, or either SPE 107 or THE 111.

+ - This course meets the World Cultures and Diversity graduation requirement.

2 - Only 100 level or higher mathematics courses are acceptable for the mathematics elective.

3 - LEJ 201 or LEJ 202 (prerequisite of LEJ 101 will be waived for Paralegal Studies degree students), PLS 200, PLS 202, PLS 206, PLS 208, PLS 212, PLS 215, PLS 220, PLS 221, PLS 222, PLS 224, PLS 230.

4 - Required for individuals without any legal experience. Individuals with legal experience may substitute another PLS course with coordinator approval.

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HARPER COLLEGE

HIGH SCHOOL PLANNING SHEET FOR COLLEGE BOUND STUDENTS



HIGH SCHOOL:

DISTRICT:

GENERAL EDUCATION COURSES

Course Number	Course Title	YEAR	SEMESTER

DEGREE:

SPECIALIZED COURSES

Course Number	Course Title	YEAR	SEMESTER

