

Department of Family and Consumer Sciences

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Degree Programs Offered

- BSFCS, major in Family and Consumer Sciences
- BSFCS, major in Family and Consumer Sciences (Consumer Science Option)
- BSFCS, major in Family and Consumer Sciences (with teacher certification)
- BSFCS, major in Family and Child Development
- BSFCS, major in Family and Child Development (with teacher certification)
- BSFCS, major in Fashion Merchandising
- BSFCS, major in Interior Design
- BSFCS, major in Nutrition and Foods
- BSFCS, major in Nutrition and Foods (Dietetics track)
- BSFCS, major in Nutrition and Foods (Nutritional Science track)
- BSFCS, major in Nutrition and Foods (with teacher certification)

Minors Offered

- Consumer Science
- Early Childhood Intervention
- Family and Child Development
- Family and Consumer Sciences
- Fashion Merchandising

Family and Consumer Science majors have a choice of three different tracks: Consumer Science, Family and Consumer Sciences, and Family and Consumer Sciences teacher certification. Students choosing the Consumer Science track study family financial decisions and the role of the consumer in the economy. Students prepare for such careers as business consumer liaisons, consumer advocates, or government agency employees. In the Family and Consumer Sciences track, students take courses from all areas of Family and Consumer Sciences and select a minor. Graduates seek employment in business, the extension service, and community agencies. The teacher certification option, approved by the Texas Education Agency, certifies graduates to teach family and consumer sciences in secondary public schools.

Family and Child Development majors work in family and child programs, and community agencies. Using an interdisciplinary approach, students focus on human development and relationships across the lifespan.

Fashion Merchandising prepares majors for careers in the merchandising and promotion of fashion goods and services including: apparel, accessories, cosmetics, fragrances, and home furnishings and a variety of other consumer products. Students must complete the required courses for a Business Administration minor.

Interior Design prepares students for careers as residential and/or commercial interior designers. The program is accredited by the Council for Interior Design Accreditation (formerly FIDER), the recognized accrediting agency for the discipline. Students learn to communicate their design concepts and to solve design problems.

Nutrition and Foods majors study how the selection, processing, and consumption of foods, individual nutrients, functional foods, and dietary supplements affect the attainment and maintenance of health. Majors prepare for careers in medical nutrition therapy, food service administration, public health nutrition programs, private practice, research, and the food industry. The Dietetics track is accredited by the Commission on Accreditation for Dietetics Education and also fulfills didactic requirements for Texas licensing. Graduates of this track

will receive a Verification Statement and are qualified to apply for post-graduate dietetic internships in pursuit of Registered Dietitian certification.

Family and Consumer Sciences Core

All majors in the department are required to take FCS 4347.

Bachelor of Science in Family and Consumer Sciences

Major in Family and Consumer Sciences

Minimum required: 120 semester hours

General Requirements:

1. In addition to general education core curriculum and departmental core requirements, the Family and Consumer Sciences major is required to take courses in all areas of Family and Consumer Sciences.
2. Majors participate in an internship in a related area.
3. MATH 1316 is not accepted as a prerequisite for courses in some minors.
4. At least three hours of the electives must be writing intensive.
5. A minor is required.
6. Two years of the same foreign language are required and if not completed in high school, these courses will add to the hours required for this major.

Freshman Year	Hours	Sophomore Year	Hours
FCS 1341	3	FCS 1347	3
FCD 1351	3	NUTR 2360 or 3362	3
ID 1321	3	ENG Literature	3
NUTR 1362, 1162	4	PHIL 1305 or 1320	3
FM 1332 or 2331	3	PFW two courses	2
ENG 1310, 1320	6	POSI 2310, 2320	6
U S 1100	1	Natural Science Component	7-8
HIST 1310, 1320	6	Electives	3
MATH 1315 or 1316 or 1319	3		
Total	32	Total	30-31
Junior Year	Hours	Senior Year	Hours
FCS 3341, 3342	6	FCS 3391, 4100, 4301, 4341, 4347	13
FCD 2351	3	FCD 3355 or 4351	3
ID 3329	3	Minor, advanced electives	9
ART, DAN, MU or TH 2313	3	Advanced electives	2-3
COMM 1310	3		
Minor electives (3 advanced)	9		
Social Science Component	3		
Total	30	Total	27-28

Bachelor of Science in Family and Consumer Sciences
Major in Family and Consumer Sciences
(with Consumer Science Option and Minor in Business Administration)

Minimum required: 120 semester hours

General Requirements:

1. In addition to general education and departmental core requirements, the consumer science option requires specialized courses in consumer education, family and personal resource management, family finance, consumer law, family financial counseling, and family policy.
2. Students participate in an internship in a related area.
3. Two years of the same foreign language are required and if not completed in high school, these courses will add to the hours required for this major.

Freshman Year	Hours	Sophomore Year	Hours
FCS 1341, 1347	6	ID 3329	3
Department Elective	3	FCS 3341	3
COMM 1310	3	ACC 2301	3
ENG 1310, 1320	6	ENG Literature	3
U S 1100	1	Natural Science Component	7-8
HIST 1310, 1320	6	POSI 2310, 2320	6
MATH 1315 or 1319	3	Social Science Component	3
PHIL 1305 or 1320	3	PFW two courses	2
Total	31	Total	30-31
Junior Year	Hours	Senior Year	Hours
FCS 3342, 4303, 4341	9	FCS 3391, 4100, 4301, 4302X, 4347	13
Business - select four from:		Electives	6-7
BLAW 2361; CIS 3317; FIN 3325;		FCD 3355 or 4351	3
MGT 3303; MKT 3343	12	ART, DAN, MU, or TH 2313	3
ECO 2301	3	Department Electives	3
Electives	6		
Total	30	Total	28-29

**Bachelor of Science in Family and Consumer Sciences
Major in Family and Consumer Sciences
(with Consumer Science Option and Minor in Mass Communication)**

Minimum required: 120 semester hours

General Requirements:

1. In addition to general education and departmental core requirements, the consumer science option requires specialized courses in consumer education, family and personal resource management, family finance, consumer law, family financial counseling, and family policy.
2. Students participate in an internship in a related area.
3. Two years of the same foreign language are required and if not completed in high school, these courses will add to the hours required for this major.

Freshman Year	Hours
FCS 1341, 1347	6
Social Science Component	3
COMM 1310	3
ENG 1310, 1320	6
U S 1100	1
HIST 1310, 1320	6
MATH 1315 or 1319	3
PHIL 1305 or 1320	3
Total	31

Sophomore Year	Hours
ID 3329	3
Department elective	3
ACC 2301	3
ENG Literature	3
Natural Science Component	7-8
POSI 2310, 2320	6
ART, DAN, MU, or TH 2313	3
PFW two courses	2
Total	30-31

Junior Year	Hours
FCS 3341, 3342, 4303, 4341	12
FCD 3355 or 4351	3
MC 1301, 3375, 4303, 4308, 4310 or 4356C (select two courses)	6
ECO 2301	3
Electives	7
Total	31

Senior Year	Hours
FCS 3391, 4100, 4301, 4302X, 4347	13
MC 3343, 3355, 3367, 4302	12
Electives	3-4
Total	28-29

**Bachelor of Science in Family and Consumer Sciences
Major in Family and Child Development
(with Human Development and Family Science Teacher Certification)**

Minimum required: 124-125 semester hours

General Requirements:

1. In addition to general education core curriculum and departmental core requirements, the Family and Consumer Sciences major pursuing teacher certification in Family and Child Development is required to take specialized courses including infant and toddler development, child development, family life education, creative activities for children, and administration of programs for young children.
2. Students participate in student teaching for pre-professional experience.
3. No minor is required.
4. Two years of the same foreign language are required and if not completed in high school, these courses will add to the hours required for this major.

Freshman Year	Hours	Sophomore Year	Hours
FCD 1351	3	FCD 2351, 2353, 2357.....	9
COMM 1310	3	FCS 1341	3
ENG 1310, 1320.....	6	ENG Literature	3
US 1100.....	1	POSI 2310, 2320	6
HIST 1310, 1320	6	Natural Science Component	4
MATH 1315 or 1319	3	Social Science Component	3
Natural Science Component	3-4	ART, DAN, MU, or TH 2313.....	3
PFW two courses	2		
PHIL 1305 or 1320.....	3		
Total	30-31	Total	31
Junior Year	Hours	Senior Year	Hours
CI 4332.....	3	AG 4311, 4343	6
FCD 3351, 3353, 3355, 3358, 3394.....	15	CI 4370.....	3
FCS 3341, 4302V	6	FCD 4351, 4352, 4355.....	9
NUTR 3362.....	3	FCS 4301, 4347, 4681	12
SOWK 4315.....	3	RDG 3323	3
Total	30	Total	33

**Bachelor of Science in Family and Consumer Sciences
Major in Family and Consumer Sciences
(with Consumer Science Option and Program in Financial Planning)**

Minimum required: 120 semester hours

General Requirements:

1. In addition to general education and departmental core requirements, the consumer science option requires specialized courses in consumer education, family and personal resource management, family finance, consumer law, family financial counseling, and family policy.
2. Students participate in an internship in a related area.
3. Two years of the same foreign language are required and if not completed in high school, these courses will add to the hours required for this major.

Freshman Year	Hours
FCS 1341, 1347	6
Social Science Component	3
COMM 1310	3
ENG 1310, 1320	6
U S 1100	1
HIST 1310, 1320	6
MATH 1315 or 1319	3
PHIL 1305 or 1320	3
Total	31

Junior Year	Hours
FCS 3342, 4303, 4341	9
ID 3329	3
ART, DAN, MU, or TH 2313	3
FIN 3312, 3318	6
FCD 3355 or 4351	3
Department Elective	3
Electives	3
Total	30

Sophomore Year	Hours
FCS 3341	3
ACC 2361, 2362	6
ENG Literature	3
Natural Science Component	7-8
POSI 2310, 2320	6
ECO 2301	3
PFW two courses	2
Total	30-31

Senior Year	Hours
FCS 3391, 4100, 4301, 4302X, 4347	13
FIN 3326, 3335, 4325	9
ACC 4328	3
Electives	3-4
Total	28-29

Bachelor of Science in Family and Consumer Sciences
Major in Family and Consumer Sciences
(with Consumer Science Option and Minor in Journalism)
 Minimum required: 120 semester hours

General Requirements:

1. In addition to general education and departmental core requirements, the consumer science option requires specialized courses in consumer education, family and personal resource management, family finance, consumer law, family financial counseling, and family policy.
2. Students participate in an internship in a related area.
3. Two years of the same foreign language are required and if not completed in high school, these courses will add to the hours required for this major.
4. The minor in Journalism requires a passing score on the Grammar, Spelling and Punctuation (GSP) test. Without a passing score on the GSP test, Journalism minors are limited to MC 1301. The Grammar, Spelling and Punctuation (GSP) test is given by the Texas State Testing, Research Support and Evaluation Center. The GSP is administered weekly; call 512-245-2276 for testing times. The test can only be taken a maximum of three times and there is a fee of \$40 per test. Tutoring resources for the GSP can be found at www.writingcenter.txstate.edu/Student-Resources/GSP.html.

Freshman Year	Hours
FCS 1341, 1347	6
Social Science Component	3
COMM 1310	3
ENG 1310, 1320	6
U S 1100	1
HIST 1310, 1320	6
MATH 1315 or 1319	3
PHIL 1305 or 1320	3
Total	31

Junior Year	Hours
FCS 3341, 3342, 4303, 4341	12
MC 1313, 3374, 3390	9
ECO 2301	3
Electives	6-7
Total	30-31

Sophomore Year	Hours
MC 1301	3
Department elective	3
ACC 2301	3
ENG Literature	3
Natural Science Component	7-8
POSI 2310, 2320	6
ART, DAN, MU, or TH 2313	3
PFW two courses	2
Total	30-31

Senior Year	Hours
FCS 3391, 4100, 4301, 4302X, 4347	13
MC 3383, 4301	6
FCD 3355 or 4351	3
ID 3329	3
Electives	3
Total	28-29

Bachelor of Science in Family and Consumer Sciences
Major in Family and Consumer Sciences

(with Consumer Science Option and Minor in Social Work)

Minimum required: 120 semester hours

General Requirements:

1. In addition to general education and departmental core requirements, the consumer science option requires specialized courses in consumer education, family and personal resource management, family finance, consumer law, family financial counseling, and family policy.
2. Students participate in an internship in a related area.
3. Two years of the same foreign language are required and if not completed in high school, these courses will add to the hours required for this major.

Freshman Year	Hours
FCS 1341, 1347	6
Social Science Component	3
COMM 1310	3
ENG 1310, 1320	6
U S 1100	1
HIST 1310, 1320	6
MATH 1315 or 1319	3
PHIL 1305 or 1320	3
Total	31
Junior Year	Hours
FCS 3341, 3342, 4303, 4341	12
ID 3329	3
SOWK 2375, 4310	6
ECO 2301	3
Electives	6-7
Total	30-31

Sophomore Year	Hours
SOWK 1350	3
Department elective	3
ACC 2301	3
ENG Literature	3
Natural Science Component	7-8
POSI 2310, 2320	6
ART, DAN, MU, or TH 2313	3
PFW two courses	2
Total	30-31
Senior Year	Hours
FCS 3391, 4100, 4301, 4302X, 4347	13
FCD 3355 or 4351	3
SOWK 3312, 3339, 4315, 4318, 4320 (select 3 courses)	9
Electives	3
Total	28

Bachelor of Science in Family and Consumer Sciences

Major in Fashion Merchandising

(with minor in Business Administration)

Minimum required: 120 semester hours

General Requirements:

1. Students will initially be admitted to the Pre-Fashion Merchandising major (125.99) until they complete COMM 1310; FM 1330; MATH 1315 or 1319 with grades of "C" or higher, and earn a Texas State GPA of 2.25 or higher. When these requirements are met, students may apply for admission to the Fashion Merchandising major (125.00).
2. Students are not able to register for upper-division FM courses until they are admitted to the major.
3. Majors who fall below the required Texas State GPA of 2.25 will have a one-semester probationary period to raise their GPA. If the GPA is not raised during this probationary period, the student will be out of the program until requirements are met.
4. Majors are required to take specialized courses in Fashion Merchandising including culture and consumer behavior, textiles, textile product analysis, fashion buying principles, fashion merchandising, fashion history, fashion merchandising administration, fashion economics, and fashion promotional strategies.
5. Majors participate in an internship in a related area.
6. Courses for a minor in Business Administration are required of all Fashion Merchandising majors.
7. Two years of the same foreign language are required and if not completed in high school, these courses will add to the hours required for this major.

Freshman Year	Hours	Sophomore Year	Hours
FM 1330, 1332, 2331	9	FM 2330, 2334	6
COMM 1310	3	ECO 2301	3
ENG 1310, 1320	6	ACC 2301	3
US 1100	1	Natural Science Component	7-8
HIST 1310, 1320	6	POSI 2310, 2320	6
MATH 1315 or 1319	3	ART, DAN, MU or TH 2313	3
PFW two courses	2	PHIL 1305 or 1320	3
Total	30	Total	31-32
Junior Year	Hours	Senior Year	Hours
FM 3330, 3331, 3332, 3334	12	FM 4301, 4331, 4337, 4338, 4339	15
Social Science Component	3	FCS 4347	3
MC 3343 or 3367	3	Business-Select four from: BLAW 2361; CIS 3317; FIN 3325; MGT 3303; or MKT 3343	12
ENG Literature	3		
Department electives	6		
Electives	1-2		
Total	28-29	Total	30

Bachelor of Science in Family and Consumer Sciences Major in Interior Design

Minimum required: 121-122 semester hours

General Requirements:

1. Students will initially be admitted to the Pre-Interior Design major (124.99) until they complete ID 1321; TECH 1413; and ARTF 1302 with grades of "C" or higher, and earn a Texas State GPA of 2.25 or higher. When these requirements are met, students qualify for admission to the Interior Design major (124.00).
2. Students are not able to register for upper-division ID courses until they are admitted to the Interior Design major.
3. Majors who fall below the required Texas State GPA of 2.25 will be out of the program until requirements are met.
4. The Interior Design major is required to take specialized courses in interior design including history of furnishings and architecture, residential and commercial interior design, research and programming, professional practices, and portfolio development. Visual communication courses, such as drawing, drafting, rendering and CADD, are taken in Art and Technology.
5. It is strongly suggested that students consider transferring into the program prior to meeting all general education core curriculum requirements or course options may be limited. The completion of ID major course requirements alone requires a minimum of six semesters due to strict sequencing, regardless of other credit hours accumulated.
6. Students participate in an internship in a related area. **Students are required to have completed ENG 1310, 1320, COMM 1310, MATH 1315 or 1319 in addition to the Interior Design course requirements prior to the internship.**
7. Majors must pass all required Interior Design, Art, and Technology classes with a grade of "C" or higher. Any student making a grade of "D" or lower in ID 1321, 2322, 2323, 3322, 3323, TECH 1413, and ARTC 2305 may not proceed to the next level course until a grade of "C" or higher is achieved.
8. A portfolio review for all Interior Design majors is conducted by the Interior Design faculty immediately upon completion of all ID 3322 course work. The purpose of the review process is to ensure that the most qualified students, evidenced by adequate skill and knowledge levels, will advance in the program. Students must pass portfolio review to proceed to ID 3323.
9. Two years of the same foreign language are required and if not completed in high school, these courses will add to the hours required for this major.

Freshman Year	Hours	Sophomore Year	Hours
ID 1321, 2321, 2322, 2323, 2329.....	15	ID 2325, 3321, 3322, 3323, 3325, 3326.....	18
ARTF 1302, ARTC 2305.....	6	TECH 2313.....	3
TECH 1413.....	4	ARTH elective, advanced	3
ENG 1310.....	3	ENG 1320.....	3
US 1100.....	1	COMM 1310.....	3
MATH 1315 or 1319.....	3	PFW one course.....	1
Total	32	Total	31
Junior Year	Hours	Senior Year	Hours
ID 3324, 4323.....	6	ID 4220, 4301, 4324.....	8
TECH 3313.....	3	FCS 4347.....	3
Elective, select from: AG 3306, 4305; ARTS 2311, 2331, 2341, 2381; TH 1358; or TECH 2360	3	FM 4338 or ART or TECH elective, advanced.....	3
ART, DAN, MU, or TH 2313.....	3	PHIL 1305 or 1320.....	3
HIST 1310, 1320.....	6	POSI 2310, 2320.....	6
Natural Science Component.....	7-8	Social Science Component.....	3
PFW one course.....	1	ENG Literature.....	3
Total	29-30	Total	29

Bachelor of Science in Family and Consumer Sciences Major in Nutrition and Foods

Minimum required: 120 semester hours

General Requirements:

1. In addition to general education and Family and Consumer Sciences core requirements, majors take courses in biology, and specialized courses in food systems, food science, food service management, nutritional assessment, wellness and fitness, and life span nutrition. Course options include medical nutrition therapy, biochemical nutrition, and nutrition and genes.
2. Majors participate in an internship.
3. A minor is required, and those in biology, business administration, and chemistry are recommended.
4. Two years of the same foreign language are required and if not completed in high school, these courses will add to the hours required for this major.

Freshman Year	Hours	Sophomore Year	Hours
NUTR 1162, 1362.....	4	NUTR 2360, 2361, 2362, 2162.....	10
BIO 1320, 1430 or 1431.....	7	BIO 2430, 2440.....	8
ENG 1310, 1320.....	6	PSY 1300 or SOCI 1310.....	3
COMM 1310.....	3	PHIL 1305 or 1320.....	3
US 1100.....	1	POSI 2310, 2320.....	6
HIST 1310, 1320.....	6	PFW course.....	1
MATH 1315 or 1319.....	3		
PFW course.....	1		
Total	31	Total	31
Junior Year	Hours	Senior Year	Hours
NUTR 3363.....	3	NUTR 4301, 4367, 4167, 4365.....	10
FCS 3391 or NUTR 4363.....	3	FCS 4303, 4347.....	6
ART, DAN, MU, TH 2313.....	3	NUTR 3366, 3166, 4304, 4360, 4362 (choose 9 hours).....	9
Minor.....	14	Minor.....	4
Elective.....	3		
ENG Literature.....	3		
Total	29	Total	29

Bachelor of Science in Family and Consumer Sciences Major in Nutrition and Foods (Dietetics Track)

Minimum required: 127 semester hours

General Requirements:

1. In addition to general education and Family and Consumer Sciences core requirements, majors take courses in agriculture, biology, chemistry, and specialized courses in food science, management, nutritional assessment, food systems, wellness and fitness, medical nutrition therapy, biochemical nutrition, functional foods and nutraceuticals, nutrition and genes, and food service management.
2. Majors must maintain a Texas State GPA of 2.75 or higher in order to graduate.
3. Majors participate in an internship.
4. No minor is required.
5. Two years of the same foreign language are required and if not completed in high school, these courses will add to the hours required for this major.

Freshman Year	Hours	Sophomore Year	Hours
NUTR 1362, 1162.....	4	NUTR 2360, 2361, 2362, 2162	10
CHEM 1341, 1141, 1342, 1142	8	BIO 2430, 2440	8
BIO 1320	3	PSY 1300 or SOCI 1310	3
ENG 1310, 1320	6	PHIL 1305 or 1320.....	3
COMM 1310.....	3	PFW two courses.....	2
US 1100	1	POSI 2310, 2320	6
HIST 1310, 1320.....	6		
MATH 1315 or 1319.....	3		
Total	34	Total	32
Junior Year	Hours	Senior Year	Hours
NUTR 3363, 3366, 3166, 4365, 4367, 4167.....	14	NUTR 4301	3
CHEM 2330, 2130, 2350, 2150	8	NUTR 4304, 4360, 4361, 4362, 4363.....	15
ENG Literature	3	FCS 4303, 4347	6
ART, DAN, MU, TH 2313	3	ENG 3303.....	3
ACC 2301	3	AG 3319	3
Total	31	Total	30

Bachelor of Science in Family and Consumer Sciences Major in Nutrition and Foods (Nutritional Science Track)

Minimum required: 120 semester hours

General Requirements:

1. In addition to general education and Family and Consumer Sciences core requirements, majors take courses in agriculture, biology, chemistry, math, and statistics, and specialized courses in food science, advanced food science, nutritional assessment, nutrition in the life span, biochemical nutrition, functional food and nutraceuticals, and nutrition and genetics.
2. Majors must maintain a Texas State GPA of 2.75 or higher in order to graduate.
3. Majors participate in an internship.
4. No minor is required.
5. Two years of the same foreign language are required and if not completed in high school, these courses will add to the hours required for this major.

Freshman Year	Hours	Sophomore Year	Hours
CHEM 1341, 1141, 1342, 1142	8	NUTR 2360, 2361, 2362, 2162.....	10
BIO 1431	4	BIO 2430, 2440	8
ENG 1310, 1320	6	PSY 1300 or SOCI 1310.....	3
COMM 1310.....	3	PHIL 1305 or 1320.....	3
US 1100	1	POSI 2310, 2320	6
HIST 1310, 1320.....	6		
PFW two courses	2		
Total	30	Total	30
Junior Year	Hours		
NUTR 3363, 3366, 3166, 4365	10	CHEM 2341, 2141, 2342, 2142	8
		ENG Literature	3

BIO 2450	4	Senior Year	Hours
ART, DAN, MU, TH 2313	3	NUTR 4301, 4304, 4361, 4362.....	12
MATH 2417	4	HP 3302.....	3
Total	32	AG 3319	3
		FCS 4347.....	3
		CHEM 4375	3
		ENG 3303.....	3
		Elective.....	1
		Total	28

Bachelor of Science in Family and Consumer Sciences
Major in Nutrition and Foods
(with Hospitality, Nutrition, and Food Science teacher certification)

Minimum required: 129 semester hours

General Requirements:

1. In addition to general education and department core requirements, majors take courses in hospitality, food systems, food service management, nutritional assessment, nutrition, and food science.
2. Students participate in student teaching for pre-professional experience and an internship.
3. No minor is required.
4. Two years of the same foreign language are required and if not completed in high school, these courses will add to the hours required for this major.

Freshman Year	Hours	Sophomore Year	Hours
NUTR 1362, 1162.....	4	NUTR 2360, 2361, 2362, 2162.....	10
BIO 1320, 1430 or 1431.....	7	BIO 2430, 2440	8
ENG 1310, 1320	6	PSY 1300 or SOCI 1310.....	3
COMM 1310.....	3	ENG Literature	3
US 1100	1	PHIL 1305 or 1320.....	3
HIST 1310, 1320.....	6	POSI 2310, 2320	6
MATH 1315 or 1319.....	3		
PFW two courses	2		
Total	32	Total	33

Junior Year	Hours
NUTR 3363, 4365, 4167, 4367	10
NUTR 4302.....	3
FCS 1341, 1347, 4302V.....	9
CI 4332	3
ART, DAN, MU, TH 2313	3
ACC 2301	3

Total **31**

Senior Year	Hours
FCS 4301, 4347, 4681.....	12
NUTR 4363 or FCS 3391.....	3
FM 4338.....	3
AG 4343	3
CI 4370	3
RDG 3323.....	3
AG 4311.....	3
Total	30

Minor in Consumer Science

A minor in Consumer Science requires 18 hours, which includes FCS 1341, 3341, 3342, 4341, and 6 hours of FCD, FCS, ID, FM, or NUTR electives.

Minor in Early Childhood Intervention

A minor in Early Childhood Intervention requires 18 hours, which includes FCD 2357, 3344, 3356, 4301, and 6 hours selected from CDIS 1331; FCD 2351, 2353, 3351, 4351, 4355; HIM 2360; PSY 3300; SOCI 3327, 3337; SOWK 1350, 2375, 4315; or SPED 2360.

Minor in Family and Child Development

A minor in Family and Child Development requires 21 hours, which includes FCD 1351, 2353, 3355, and 12 additional hours of FCD, 9 of which must be advanced, selected from: FCD 2351, 2357, 3350, 3351, 3353, 3354, 3356, 3358, 3394, 4101, 4301, 4351, 4352, 4355, 4356, 4357 or FCS 4303.

Minor in Family and Consumer Sciences

A minor in Family and Consumer Sciences requires 18 hours, which includes FCS 1341 or 3341; FCD 3355; FM 1332 or 2331 or 3331; NUTR 3362; ID 3329; and 3 hours of electives. 9 hours must be advanced.

Minor in Fashion Merchandising

A minor in Fashion Merchandising requires 18 hours, which includes FM 1330 and 15 hours from: FM 1332, 2330, 2331, 2334, 3330, 3331, 3332, 3334, 4320, 4331, 4337, 4338, 4339, or 4340.

Courses in Family and Child Development (FCD)

1351 Lifespan Development. (3-0) Developmental principles underlying behavior as experienced in physical, intellectual, emotional and social changes across the lifespan. Emphasis will be on adult development.

2351 Child Development. (3-1) The development of the total child from conception through adolescence. Observation in Child Development Center.

2353 Principles of Guidance. (2-2) Theory and practice related to child guidance. Participation in Child Development Center required. Prerequisite: FCD 2351 or approval of instructor.

2357 Infants and Toddlers. (2-2) The study of infants and toddlers in home and group settings; implementation of learning strategies based on developmental principles. Directed participation in the Child Development Center. Prerequisite: FCD 2353 or approval of instructor.

3344 Introduction to Infant and Early Childhood Mental Health. (3-0) This course is an introduction to the interdisciplinary understanding of the social and emotional development of infants and young children within the context of the family. The role of the infant mental health specialist in strengthening the development of young children will be emphasized.

3345 Methods in Child Life. (3-0) This course focuses on the applied techniques of the Child Life profession. The course will include medical diagnosis terminology, patient assessment, therapeutic techniques and interventions utilized in child life clinical practice.

3350 Families & Sexuality. (3-0) A study of sexuality development as it relates to current critical issues for families and society.

3351 Creative Experiences: Social Studies and the Arts. (3-1) The application of methods, materials, and planning in the development of curriculum for the preschool child through language, music, literature, art, dramatic play and social studies. Participation in Child Development Center required. Prerequisite: FCD 2353 or approval of instructor.

3352 Development of Programs for Young Children. (3-0) The study of group care programs for children including development, implementation and assessment of developmentally appropriate programs. Various theoretical and philosophical components will be included.

(WI) **3353 Family Life Education.** (3-0) Study of relationships between core knowledge, educational practice, and audience characteristics in family life education. Translation of research-based knowledge about family life into education materials and presentations suitable for families. Opportunity to develop, implement, and evaluate a family life education presentation.

3354 Creative Experiences: Science and Math. (3-1) The application of methods, materials and planning in the development of curriculum for the preschool child through math, science, nutrition and outdoor play. Participation in Child Development Center required. Prerequisite: FCD 2353 or approval of instructor.

3355 Family Relationships. (3-0) This course will cover a broad range of research-based topics including the universality and uniqueness of American families, the establishment and maintenance of intimate relationships, family formation and parenthood, and various other aspects related to individual and family relationships over time.

3356 Introduction to Early Childhood Intervention. (3-0) This course provides an interdisciplinary orientation to the professional discipline of early childhood intervention and the early intervention specialist.

3358 Practicum in Child Development. (1-4) Structured practical experience in child development center. Prerequisites: FCD 2353, 2357, and 3351 or approval of instructor.

3359 Family Diversity. (3-0) This course will explore both the internal dynamics and external environments of diverse family forms- including prevalence, social conditions leading to and sustaining their existence, common stereotypes, and recent research.

3394 Problems in Adolescence. (3-0) A study of adolescence as it relates to current critical issues for families and society. The course will focus on specific techniques to analyze and assist the development of adolescents. Emphasis will be on theory and research as it explains the development process.

(WI) **4301 Internship in Family and Child Development.** (0-6) Internship program in Family and Child Development – related professions, services, industry, or business. Must meet college, department, and program requirements.

4302 Special Topics in Family and Child Development. (3-0) Designed to examine special topics in family and child development. Emphasis on current research in the field.

(WI) **4351 Cultural Diversity of Families.** (3-0) Study of family diversity through selected family science research methods and topics including family structure and function, family life patterns, multicultural groups, agents of enculturation, and family life education. Prerequisite: FCD 3355 or consent of instructor. (MC)

4352 Administration of Programs for Children. (3-0) Addresses the history, philosophy, and ethics of programs for young children. Emphasis on responsibilities of the child care administrator in relation to staff, budgets, facility laws, and standards of agency management. Prerequisite: FCD 2353 or approval of instructor.

4353 Hospitalized Child: Introduction to Child Life. (3-0) This course introduces students to theoretical and practical methods of working with children and their families in health care settings.

4355 Family Interaction. (3-0) Study and comparison of family interaction and process across various family structures and transitions. Investigation of interaction strategies to enhance successful family function across various family structures and transitions. Prerequisite: FCD 3355 or approval of instructor.

4356 Program Administration. (3-0) A study of the implementation of family and child development programs. Emphasis will be on program development, personnel and supervisory issues, financial management, grant writing, public policy, and legal and professional standards. Prerequisites: FCD 2353 and 3355 or approval of instructor.

4357 Comparative Studies in Child Development. (3-0) The study of early care and education systems including goals, funding and regulation through participation in international exchange programs. The role of government policies in the development and implementation of systems will be addressed.

(WI) **4391 Independent Study in Family and Child Development.** (0-6) Independent reading and/or research on a specific topic related to student's primary area of interest. Work may consist of research, reviews and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor.

Courses in Family and Consumer Sciences (FCS)

Many of the subject-matter courses in Family and Consumer Sciences are open to non-majors as electives.

1341 (ECON 1303) Consumers in the Marketplace. (3-0) An introduction to consumerism. Topics covered will include: the consumer's role in the economy; consumer responses to the pressures of the economy (credit, inflation, and savings); and an analysis of the largest consumer expenditures (housing, food, and transportation).

1347 Family and Personal Resource Management. (3-0) An analysis of family and personal management processes including resource identification and factors that impact on management and decision making. Contemporary issues in the field will be considered: changing family roles, one-parent families, aging, the handicapped, low income families, the one-person family, and alternate lifestyles.

3341 Family Finance. (3-0) Study of family financial management during different stages of the family life cycle at various income levels. Topics include budgeting and record keeping to achieve economic goals; the role of credit and the need for financial counseling; economic risks and available protection; and alternative forms of saving and investments. Prerequisite: FCS 1341 or consent of instructor.

3342 Consumer Law. (3-0) An in-depth review of the relationship between the consumer and federal and state law and policy. Includes study of both consumer protection legislation and laws which define the consumer's rights and responsibilities. Will consider the operation of government agencies and the courts in various consumer areas as well as avenues of redress on the part of the consumer. Prerequisite: FCS 1341.

3391 Communication Skills and Techniques. (2-2) Analysis of factors that influence program planning and application of program development to planning for groups or individuals with differing purposes and organizational structure. Planning, developing, and implementing the use of alternative media and methods: the use of audio-visuals; demonstration techniques; radio; and television. Emphasis on methods for use with adults.

FCS 4100 Professional Preparation in Family and Consumer Sciences. (1-0) Family and Consumer Sciences in the professional world and continuing education. Opportunities, interviews, and professional ethics. Development of credentials and portfolios. Required of all seniors majoring in FCS with selected minor and Consumer Science majors.

4101 Special Problems in Family and Consumer Sciences. (1-0) A study of selected areas of Family and Consumer Sciences. Repeatable for credit with different emphasis.

(WI) **4301 Internship in Family and Consumer Sciences.** (0-6) Internship program in Family and Consumer Science-related professions, services, business, or industry. Must meet college, department and program requirements. Repeatable for credit with different emphasis. (Capstone Course)

4302 Special Topics in Family and Consumer Sciences. (3-0) In-depth study of a current topic or issue of interest to Family and Consumer Sciences professionals in work with individuals and families. Individual topics are listed in the class schedule as 4302 with appropriate suffixes.

4302V Occupational FCS II: Industry Related Content. (3-0)

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4302X Financial Counseling Practicum. (3-0)

(WI) **4303 Research Procedures in Family & Consumer Sciences.** (3-0) The study and implementation of research procedures for use with family and consumer sciences programs.

Includes instrument selection, recruitment and testing of subjects, coding, analysis and dissemination of data. Will include field based experiences using appropriate research procedures.

(WI) **4340 International Study in Family & Consumer Sciences.** (3-0) Study of Family and Consumer Sciences topics in international settings. Emphasis will be placed on cultural awareness and its application within FCS professions. Repeatable for credit with different emphasis. (MC)

4341 Counseling for Family Practitioners. (3-0) Family financial issues are studied with an emphasis on the role of the financial counselor. Designed to increase awareness and knowledge of the characteristics of persons in serious financial difficulties, complexity of factors affecting such situations, desirable relationships between the helper and helped, awareness of community resources. Prerequisites: FCS 1341, 3341.

(WI) **4347 Family Policy.** (3-0) An examination of policy-making and the significance of national, state and local policies that affect families. Students will analyze social policies, including government programs and legislation, and discuss how to influence change in policies. Use of the Internet and computer software programs such as Word, PowerPoint, and others required.

(WI) **4391 Independent Study in Family and Consumer Sciences.** (0-6) Independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. Course may be repeated once for credit with approval of instructor.

4681 Family and Consumer Sciences: Principles and Process. (0-6) Observation and participation in the total family and consumer science program. Requires a full day in the Teaching Center for ten weeks (five day week except for holidays in public school system). Prerequisites: FCS 3390 and completion of all required Family and Consumer Sciences courses.

Courses in Fashion Merchandising (FM)

1330 (HECO 2311) Introduction to Fashion Merchandising. (3-0) Survey of the fashion industry including an overview of the development, production and distribution of fashion goods and services.

1332 (HECO 1320) Textiles. (3-0) A consumer-oriented study of the relationship of fibers, fabrics, and textile product end-uses.

2330 Fashion Promotional Strategies I. (3-0) The study of promotional strategies unique to the fashion industry. Emphasis is placed on techniques used at the retail level. Prerequisite: FM 1330.

2331 Culture & Consumer Behavior. (3-0) The study of theories related to culture and appearance that influence fashion and fashion product consumption. Prerequisite: FM 1330.

2334 Textile Product Analysis. (3-0) The study of textile product quality control issues important to manufacturers, retailers, and consumers. Emphasis is placed on evaluating quality based on appearance, cost, durability, and end-use of textile products. Prerequisites: FM 1330 and 1332.

3330 Fashion Buying Principles I. (3-0) Quantitative concepts used in merchandising fashion goods with an emphasis on profitability. Prerequisites: FM 1330, MATH 1315 or 1319.

3331 Fashion History. (3-0) Chronological study of Western fashion through the ages. Emphasis on social, economic, and political influences on fashion development. Prerequisite: FM 1330 and 1332.

3332 Fashion Promotional Strategies II. (3-0) The study of promotional strategies unique to the fashion industry. Emphasis is placed on techniques initiated by manufacturers and wholesalers of fashion products. Prerequisites: FM 2330.

3334 Fashion Merchandising Administration. (3-0) The study of human resource management in the fashion industry including recruitment, development, assessment, and compensation. Prerequisite: FM 1330.

4101 Special Problems in Fashion Merchandising. (0-2) A study of selected areas of Fashion Merchandising. Repeatable for credit with different emphasis.

4111 Specialty Fashion Markets: Career Day. (1-0) On-site study of current textile, merchandising, retail and promotional trends and fashion career related topics. Prerequisite: FM 1330 and 1332.

4122 Special Events: Fashion. (1-0) The study of all facets involved in planning, organizing, and implementation of a fashion related special event. Prerequisite: FM 2330.

(WI) **4301 Internship in Fashion Merchandising. (0-6)** Internship program in fashion merchandising-related professions focused on production, distribution, or retailing of fashion goods, or auxiliary services. Prerequisite: Must meet college, department, and program requirements. (Capstone Course) Repeatable for credit with different emphasis.

4302 Special Topics in Fashion Merchandising. (3-0) An in-depth study of selected topics or emerging issues of particular relevance to Fashion Merchandising professionals. Course may be repeated for credit with a different emphasis

4302A Special Events Planning. (3-0)

4302B Specialty Fashion Markets. (3-0)

4320 Fashion Merchandising in Domestic Markets. (3-0) An on-site study of domestic fashion market centers. Course examines the design, production, and distribution of fashion products and services at various market levels. Repeatable for credit with different emphasis.

(WI) **4331 Fashion Buying Principles II. (3-0)** A study of the roles and responsibilities of fashion merchandise buyers. Emphasis on retail buying functions, including developing merchandise plans, selecting products, negotiating terms, and monitoring performance. Prerequisite: FM 3330.

4337 Fashion Merchandising. (3-0) The study of managerial decisions in fashion retailing with an emphasis on operational issues. Prerequisites: FM 1330, 2330, 3330, and 3334, or consent of instructor.

4338 Enterprise Development. (3-0) Principles and procedures used in creating successful enterprises to meet consumer demand, including consumer research, logistical issues, and strategic planning. Examines various product and service offerings in traditional and non-traditional outlets. Prerequisites: ID 3323 or FM 3330.

(WI) **4339 Fashion Economics. (3-0)** Economic perspective of textile products, production and global sourcing with emphasis on U.S. fashion industries. Prerequisite: FM 1330, 1332, and ECO 2301 or 2314 and 2315.

4340 Fashion Merchandising in International Markets. (3-0) Study of Fashion Merchandising topics in international settings. Emphasis will be placed on market differences and cultural awareness, and the implications within Fashion Merchandising professions. Repeatable for credit with different emphasis. (MC)

(WI) **4391 Independent Study in Fashion Merchandising. (0-6)** Independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature or other appropriate independent work. May be repeated once for credit with approval of instructor. Prerequisites: FM 1330 and consent of instructor.

Courses in Interior Design (ID)

1321 Introduction to Design. (1-4) Elements and principles of design as applied to the individual and his/her environment.

2321 History of Interiors. (3-0) Survey of historical styles of furnishings, architecture, and interiors from the Egyptian period to the Industrial Revolution.

2322 Basic Interior Design. (3-0) Introductory lecture course for Interior Design majors, analyzing the elements and principles of design as applied to interior environments. Fundamentals of professional requirements, human factors, space planning, properties and applications of interior materials and systems, and components of style. Prerequisite: ID 1321.

2323 Design Development. (0-6) Introduction to the process of design development and planning of interior space with emphasis on graphic visualization as a creative process and design tool. Prerequisites: ID 1321; TECH 1413.

2325 Materials and Sources. (3-0) An in-depth study of the materials and finishes specified for residential and commercial interiors, their performance, application, and manufacturer and vendor sources: primarily floor, wall and ceiling finishes, textiles, window treatments, and accessories. Specification writing and finish schedules are addressed. Prerequisite: ID 2322.

2329 Housing and the Environment. (3-0) Introduction to environmental factors related to human habitation. Investigates housing from global, ecological, social, physical, and spatial perspectives. Includes principles of sustainable resources, energy management, structural and mechanical systems, and interior materials and finishes. For Interior Design majors only or consent of instructor. (MC)

(WI) **3321 Contemporary Interiors and Architecture.** (3-0) A survey of contemporary styles of furnishings, architecture, and interiors from the 19th century to the present. Prerequisite: ID 2321.

3322 Studio I: Residential Interior Design. (0-6) Beginning studio experience of various dimensions, purposes, and characters relative to the small and large residential space. Prerequisites: ID 2321, 2322, 2323, 2329; ARTC 2305. Co-requisite: ID 3325 or 3326.

3323 Studio II: Commercial Interior Design. (0-6) Analyzing, planning and furnishing small to moderate commercial and other non-residential spaces. Prerequisites: ID 2325, 3322, TECH 2313. Co-requisites: ID 3325 or 3326.

(WI) **3324 Professional Practices.** (3-0) A study of the business principles, ethics, and procedures for the interior designer. Prerequisite or co-requisite: ID 3322.

3325 Interior Lighting Design. (3-0) The study of natural and manufactured light sources relative to the interior environment. Emphasis is on light science and technology and the effects on health, behavior, color and form. Includes issues of aesthetics, energy conservation, codes, evaluation, and specifications. Prerequisites: ID 2322, 2323 or consent of instructor.

3326 Comprehensive Interior Design. (3-0) Advanced study of materials, systems, codes and other factors relating to public health, safety, and welfare in interior environments. Lecture and application of resources, materials and design technologies. Addresses specifying, scheduling, budgeting, and resource conservation. Prerequisites: ID 2322, 2323 or instructor consent.

3329 Housing, Interiors, and Furnishings. (3-0) An application of the basic design principles in planning, designing, and furnishing interiors for contemporary living to reflect function, economy, beauty, and individuality for varying income levels. For non-Interior Design majors only.

4101 Special Problems in Interior Design. (0-2) A study of selected areas of Interior Design.

4220 Portfolio Development. (0-4) Focuses on portfolio development in preparation for the workplace. Addresses principles of visual and verbal communication, portfolio content and presentation techniques. Requires upgrading and archiving of studio projects, and investigating alternative presentation methods. Prerequisite: ID 4323.

(WI) **4301 Internship in Interior Design.** (0-6) Internship experience in the Interior Design profession. Must meet college, department, and program requirements. (Capstone Course) Prerequisites: ID 3323, 3324, 3325, 3326.

4302 Special Topics in Interior Design. (3-0) Designed for Interior Design majors to thoroughly research a selected topic or emerging issue. Allows students the opportunity to specialize in an area that is not ordinarily covered in the requirements of the major.

4302A Historic Preservation. (3-0)

4302B Digital Interior Design. (2-2)

4302C Lighting Research and Applications. (3-0)

4302D Manual Design Graphics. (3-0)

4320 Interior Design in Domestic Markets. (3-0) An on-site study of domestic design market centers. Course examines the design, production, and distribution of interior products and services at various market levels. Repeatable for credit with different emphasis.

4323 Studio III: Research/Environmental Design. (0-6) Specialized research in and application of factors impacting the interior environment. Includes design programming, advanced space planning, finish specifying, furnishings design and detailing, and presentation strategies through creative problem-solving. **Prerequisites:** ID 3321, 3323, 3325, 3326, TECH 3313.

4324 Studio IV: Contemporary Design Issues. (0-6) Specialized research in interior design to include design issues such as barrier free environments, medical facilities, historic preservation/adaptive re-use, international interiors, energy issues, sustainable design and design for special needs. **Prerequisites:** ID 4323.

4340 Interior Design in International Markets. (3-0) Study of Interior Design topics in international settings. Emphasis will be placed on market differences and cultural awareness, and the implications within Interior Design. Repeatable for credit with different emphasis. (MC)

(WI) **4391 Independent Study in Interior Design.** (0-6) Independent reading and/or research on a specific topic related to student's primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor.

Courses in Nutrition and Foods (NUTR)

1162 Food Systems Laboratory. (0-2) This course provides for application of the management techniques and concepts of planning, preparation, cost analysis, and evaluation covered in NUTR 1362. Co-requisite: NUTR 1362.

1362 Food Systems. (3-0) Nutrition, food science, and management principles in planning, procuring, preparing, preserving, evaluating, and serving food to fulfill dietary requirements of individuals and diverse cultural groups. Includes federal legislation, environmental issues, and culinary principles. Co-requisite: NUTR 1162.

2162 Food Science Laboratory. (0-2) Laboratory techniques and exercises related to food, chemistry, microbiology, nutrition, food palatability, and food safety. Co-requisite: NUTR 2362. Prerequisite: NUTR 2360.

2360 (BIOL 1322) Nutrition Science. (3-0) The science of human nutrition with emphasis on nutrient digestion, absorption, and excretion; nutrient metabolism, requirements, and sources. Prerequisite: Three semester hours of science.

2361 Nutritional Assessment. (3-0) Principles and techniques of assessing nutritional status, presentation of interviewing and nutrition counseling theories, development of individualized treatment plans and educational tools, and accessing community nutrition resources. Practical application through assignments and in-class experiences. Prerequisites: NUTR 1360 and 2360.

2362 Food Science. (3-0) Scientific principles underlying the relationships among food, chemistry, microbiology, nutrition, and food safety as related to the major food groups. Prerequisites: 3 hours of chemistry or biology coursework; NUTR 2360. Co-requisite: NUTR 2162.

3166 Advanced Food Science Laboratory. (0-2) Different techniques and protocols used in physical, chemical, colorimetric, spectrophotometric, molecular, and microbiological analysis of food components and assessment of food quality, stability, and safety. Different bioprocessing techniques to improve the quality of food will also be performed. Prerequisites: NUTR 2162, 2362, and CHEM 2330. Co-requisite: NUTR 3366.

3362 Nutrition and Health. (3-0) For non-science majors. Involves the study of the nutrients and their function in promoting health throughout the life span. Includes standards for consumer selection of a proper diet and analysis of nutrition-related health problems.

3363 Nutrition for Wellness and Fitness. (3-0) Exploration of causes and treatment of overweight and obesity. Effect of dietary and lifestyle choices on attainment and maintenance of health and prevention of chronic diseases. Introduction of exercise physiology. Dietary recommendations for sports, fitness and prevention of eating disorders. Prerequisites: NUTR 2360, 2361, and BIO 2430, or instructor consent.

3364 The Science of Nutrition and Exercise. (3-0) A course focusing on basic nutritional science, with emphasis on the physiological and biochemical importance of nutrition to physical performance, health, and fitness. The use and efficacy of ergogenic aids will be investigated. The course requires reading and interpreting the scientific literature.

3366 Advanced Food Science. (3-0) Examination of chemistry, morphology, concentration, and compartmentalization of cellular components in food; effect of storage and processing on molecular levels of food quality; kinetic behavior, activity, and stability of food enzymes and microbes, their effect on food quality and safety. Prerequisites: NUTR 2162, 2362, and CHEM 2330. Co-requisite: NUTR 3166.

4101 Special Problems in Nutrition and Foods. (0-2) Independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor.

4167 Food Systems-Production & Management Laboratory. (0-2) This course provides for application of the management techniques and concepts of institutional food production covered in NUTR 4367. Prerequisite: NUTR 1162, 1362 or consent of instructor. Co-requisite: NUTR 4367.

(WI) **4301 Career Exploration in Nutrition and Food Science.** (0-6) Internship program in Nutrition and Foods-related professions, services, businesses, or industry. Must meet school, department and program requirements. Nutrition and Foods internship does not qualify students for dietetic registration by The American Dietetic Association. (Capstone Course)

4302 Special Topics in Nutrition and Foods. (3-0) An in-depth study of selected topics or emerging issues of particular relevance to nutrition and food science professionals. Course may be repeated for credit with a different emphasis.

4302A Hospitality. (3-0)

4302C Micronutrients. (3-0)

4304 Functional Foods and Nutraceuticals. (3-0) Introduction to functional foods, nutraceuticals and dietary supplements used to prevent and treat chronic and infectious diseases. Emphasizes sources and mechanisms of action of dietary bioactives. Addresses regulatory issues that govern the development and commercialization of these compounds. Prerequisites: NUTR 2360 or 3362 and two semesters of chemistry and/or biology.

(WI) **4360 Medical Nutrition Therapy.** (3-0) Study of the physiological and biochemical abnormalities of certain disease states of the human body's systems with emphasis on diet modification as a therapeutic measure. Prerequisites: NUTR 2360, 2361, 3365, and BIO 2430 or consent of instructor.

(WI) **4361 Biochemical Nutrition.** (3-0) A study of the biochemical and physiological foundations of nutrition. Information pertaining to cytology, biochemical structure of nutrients, energy transformations, nutrient-drug interactions, and the anatomy, physiology, and nutrient metabolism of major organ systems is covered. Prerequisites: NUTR 2360 and 3365; BIO 2430. Co-requisites: CHEM 2350 and 2150.

4362 Nutrition and Genetics. (3-0) This course will examine the specific processes in intermediary nutrient metabolism and their genetic regulation. The effects of nutrients on gene expression, cell signaling, cell physiology, and disease processes will also be explored. Prerequisites: NUTR 2360; BIO 2430 and 2440.

4363 Nutrition Counseling and Education. (3-0) Study of teaching/learning styles and development of counseling skills to improve the nutritional status of individuals, families, and groups. Development of effective nutrition education materials and media communications. Prerequisites: NUTR 2361, 4365.

4365 Nutrition in the Life Span. (3-0) An in-depth study of the normal growth, development, and nutritional requirements associated with pre-pregnancy, pregnancy, infancy, childhood, adolescence, and the older adulthood. Prerequisites: NUTR 2360 or 3362; BIO 2430.

4367 Food Systems-Production & Management. (3-0) Principles, policies, and procedures for planning, procurement, staffing, production, evaluation, and research in institutional food service; includes systems design, decision hierarchy, organizational structure, and personnel selection, training, and management. Prerequisites: NUTR 1162, 1362, or consent of instructor. Corequisite: NUTR 4167.

(WI) **4391 Independent Study in Nutrition and Foods.** (0-6) Independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor.