



Educational Opportunities

## PROGRAMS OF STUDY FOR COLLEGE CREDIT DEGREES AND CERTIFICATES OFFERED

At press time, degree and certificate information was current. For updates, consult the college website: [www.cod.edu](http://www.cod.edu).

### DEGREES

Nine degrees are granted by College of DuPage:

1. The Associate in Arts degree represents the first two years of study for students who plan to pursue a bachelor's degree in liberal arts.
2. The Associate in Science degree represents the first two years of study for students who plan to pursue a bachelor's degree in science.
3. The Associate in Engineering Science degree is intended for students who wish to prepare for transfer to a baccalaureate-granting school in the field of engineering.
4. The Associate in Applied Science degree represents the completion of study in an occupational/vocational program. Students earning this degree may seek employment following graduation or transfer to a baccalaureate-granting college or university that has articulation agreements with College of DuPage for these programs of study.
5. The Associate in General Studies degree is designed for students who desire to arrange a program of courses to meet their personal interests.
6. The Associate in Fine Arts degree in Art is intended for students who wish to prepare for transfer to a baccalaureate-granting school with a Bachelor in Fine Arts program.
7. The Associate in Fine Arts degree in Music is intended for students who wish to prepare for transfer to a baccalaureate-granting school with a Bachelor in Music program.
8. The Associate in Arts in Teaching Secondary Mathematics is intended for students who wish to prepare for transfer to a baccalaureate-granting school to complete all requirements for a bachelor's degree and teacher certification at the secondary level for mathematics.
9. The Associate in Arts in Teaching Early Childhood Education is intended for students who wish to prepare for transfer to a baccalaureate-granting school to complete all requirements for a bachelor's degree and the Type-04 Teacher Certification for Early Childhood Education.

Degrees are awarded at the close of each semester. However, when a student completes all requirements for a degree, the completion date is recorded on the student's permanent academic record. The requirements for each degree are recommended by the faculty and approved by the president of the College.

### GRADUATION REQUIREMENTS FOR ALL ASSOCIATE'S DEGREES

Students are subject to the degree requirements that are in effect during the academic year in which they originally enroll, as well as subsequent applicable changes. Some state certification programs may require students to be subject to the most current requirements. It is the responsibility of the student to verify the appropriate degree requirements with a program adviser and the Records office. Current degree information is also available on the official College of DuPage website, <http://home.cod.edu/academics/degrees>

Each candidate for a degree shall:

1. Complete at least 64 credits in courses numbered 1000 or above (or equivalent) as specified for each degree.
2. Possess a minimum 2.0 ("C") average in the combined grade point average of all College of DuPage courses numbered 1000 and above and all courses accepted for transfer from other institutions.
3. Complete a minimum of 20 applicable credits toward a degree at College of DuPage, with the final 10 credits at the College.
4. File a petition for Degree/Certificate completion no sooner than one semester before the anticipated completion date. Run a degree audit online to check the status of your progress.
5. Satisfy all financial obligations and other specific requirements.
6. Be in good standing at the time final credits for the degree are earned.

*Note:* Students are subject to degree requirements as stated in the College of DuPage Catalog current at the time of original enrollment, as well as subsequent applicable changes, unless enrollment has been broken for more than three consecutive semesters, including summer semester. When enrollment has been broken for more than three consecutive semesters, the student is subject to degree requirements stated in the College of DuPage Catalog current at the time of re-enrollment.

### ASSOCIATE IN ARTS DEGREE

#### Degree Requirements

(Total Minimum Credits Required: 64)

(A complete list of General Education Core Curriculum transfer courses is available at the Illinois Articulation Initiative website: [www.itransfer.org](http://www.itransfer.org)).

Each candidate for an Associate in Arts (A.A.) degree shall:

1. Select courses to complete the required credits from:
  - a. general education core requirement courses,
  - b. coursework in the Human Relations, Global/ Multicultural Studies, and Contemporary Life Skills categories and
  - c. additional coursework (See Notes at end of A.A. degree) to a minimum of 64 credits.
2. Satisfactorily complete a minimum of 37 credits in General Education Core Curriculum (Illinois Articulation Initiative course codes are listed in parentheses after each course or sequence) in the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories as specified below. (Note: Refer to p. 25 for a discussion of general education core requirements)
  - a. **Communication** .....9 credits  
 Written (6 credits) English 1101 (C1 900) and 1102 (C1 901R)  
 (Grade of "C" or higher required for both courses)  
 Oral (3 credits) Speech 1100 (C2 900)  
 (Grade of "C" or higher required)
  - b. **Physical and Life Sciences** .....7 to 10 credits  
 Select one course from Life Sciences and one course from Physical Sciences. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward your degree.) At least one course must have a laboratory component.

### Life Sciences

Anatomy and Physiology 1500 (L1 904L), 1551 (L1 904L), 1571 (L1 904L)  
Biology 1100 (L1 900L), 1110 (L1 905L), 1120 (No Lab) (L1 906), 1130 (L1 906L), 1151 (L1 900L)  
Botany 1310 (L1 901L)  
Microbiology 1420 (L1 903L)

### Physical Sciences

Chemistry 1105 (P1 903L), 1211 (P1 902L), 1551 (P1 902L)  
Earth Science 1101 (P1 907L), 1102 (P1 907L), 1110 (P1 905L), 1111 (No Lab) (P1 905), 1115 (P1 905L), 1122 (P1 906L), 1124 (P1 906L), 1126 (P1 906L), 1130 (P1 905L), 1135 (P1 905L), 1140 (P1 905L)  
Physics 1100 (P1 900L), 1201 (P1 900L), 2111 (P2 900L)

### c. Mathematics.....3 to 5 credits

(Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward your degree.)  
Mathematics 1218 (M1 904), 1220 (M1 901), 1322 (M1 903), 1533 (M1 906), 1635 (M1 902)\*, 2115 (M1 905), 2134 (M1 900-B), 2231 (M1 900-1), 2232 (M1 900-2), 2233 (M1 900-3)  
Psychology 2280 (M1 902)\*  
Sociology 2205 (M1 902)\*  
(\*Only one from these three courses may count toward overall degree requirement credit.)

### d. Humanities and Fine Arts.....9 credits

Select at least one course from Humanities and at least one course from Fine Arts. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward your degree.)

### Humanities

Chinese 2202 (H1 900)  
English 1130 (H3 900), 1150 (H3 901), 1151 (H3 901), 1152 (H3 903), 1153 (H3 902), 1154 (HF 908)\*, 1158 (H5 901), 1159 (H9 901), 1160 (H3 910D), 1161 (H3 910D), 1165 (H3 911D), 2220 (H3 912), 2221 (H3 913), 2223 (H3 914), 2224 (H3 915), 2226 (H3 907), 2227 (H3 907), 2228 (H3 905), 2262 (H3 908N)  
French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)  
German 2200 (H3 909), 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)  
History 1110 (H2 901), 1120 (H2 902), 1160 (H2 907), 2205 (H2 903N), 2220 (H2 903N), 2225 (H2 908), 2230 (H2 908), 2235 (H2 903N)  
Humanities 1102 (H9 900), 1103 (H9 901), 1105 (HF 904N)\*, 1110 (HF 906D)\*, 2019 (HF 907D)  
Italian 2202 (H1 900)  
Japanese 2202 (H1 900)  
Korean 2202 (H1 900)  
Philosophy 1100 (H4 900), 1110 (H4 904), 1116 (H4 904), 1117 (H4 901), 1118 (H4 902), 1120 (H4 906), 1125 (H4 906), 1145 (H4 905), 1150 (H5 904N)  
Religious Studies 1100 (H5 900), 1110 (H5 901), 1120 (H5 901), 1150 (H5 904N), 1155 (H4 903N), 2160 (H5 901)  
Russian 2202 (H1 900)  
Spanish 2202 (H1 900), 2206 (H1 900), 2208 (H1 900), 2251 (H1 900), 2252 (H1 900)

### Fine Arts

Art 1100 (F2 900), 2211 (F2 901), 2212 (F2 902), 2213 (F2 902), 2214 (F2 903N)  
English 1135 (F2 908), 1154 (HF 908)\*  
Humanities 1101 (F9 900), 1105 (HF 904N)\*, 1110 (HF 906D)\*  
Music 1100 (F1 900), 1104 (F1 904), 1115 (F1 903N)  
Theater 1100 (F1 907)

*\*Interdisciplinary credit (HF) may be earned as either Fine Arts or Humanities.*

### e. Social and Behavioral Sciences.....9 credits

Courses must be selected from at least two disciplines. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward the degree.)  
Anthropology 1100 (S1 901N), 1101 (S1 900N), 1105 (S1 904D), 1120 (S1 903), 1125 (S1 902), 1130 (S1 904D)  
Economics 2200 (S3 900), 2201 (S3 901), 2202 (S3 902)  
Geography 1100 (S4 901), 1105 (S4 902N), 1120 (S4 903N), 1130 (S4 900N), 1140 (S4 901)  
History 1130 (S2 900), 1140 (S2 901), 2210 (S2 907N), 2215 (S2 916N), 2260 (S2 901)  
Political Science 1100 (S5 903), 1101 (S5 900), 2203 (S5 905), 2220 (S5 904N)  
Psychology 1100 (S6 900), 2230 (S6 903), 2233 (S6 904), 2235 (S6 905), 2237 (S6 902), 2240 (S8 900)  
Sociology 1100 (S7 900), 1120 (S7 904D), 2210 (S7 901), 2215 (S7 903D), 2220 (S7 902)

### 3. Fulfill these requirements in the categories specified

- Complete at least one course from the Human Relations category. Refer to p. 26 for a list.
  - Complete at least one course from the Global/Multicultural Studies category. Refer to p. 26 for a list.
  - Complete at least one course from the Contemporary Life Skills category. Refer to p. 26 for a list.
- Select courses to complete the minimum required 64 credits from General Education Core Curriculum courses, elective courses (refer to p. 27), and up to 10 credits in occupational/vocational courses to a maximum of 10 credits.
  - Satisfy graduation requirements for all associate's degrees (refer to p. 13).
  - Earn no more than 6 credits in History in the Humanities and Fine Arts, and Social and Behavioral Sciences categories combined for general education credit. Additional credits in History from general education or other categories may be earned as elective credit, unless restricted by degree requirements.
  - Earn no more than 4 credits in Physical Education activity courses.
  - Only one of the following courses may count toward the degree: Mathematics 1428 or Mathematics 1431.
  - Earn no more than 16 credits in courses numbered 1800 or 2800, 1840 or 2840, 1820 to 1829, and 2820 to 2829, or labeled as independent study, experimental/pilot, selected topics or field/experiential.
  - Earn no more than 12 credits with a satisfactory/fail grade option in courses counted toward elective credit.
  - Earn General Education Core Curriculum course credit with letter grades, not satisfactory/fail grades.

12. Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program.
13. Earn the remaining credits in courses that normally apply to a bachelor's degree as indicated in the transfer program guides.

*Notes:* For help in choosing additional coursework beyond the General Education Core to fulfill this degree, students should consult a faculty adviser from their area of interest for suggestions regarding course selection from the range of offerings in a specific field of study.

There is no guarantee that elective or occupational/vocational courses will transfer as specific course equivalents to a baccalaureate-granting institution or other colleges. The transferability of these courses needs to be validated with a transfer institution.

Degree-seeking students should complete the General Education Core Curriculum and required sequence courses before transfer to another participating IAI institution to guarantee the completion of lower division general education coursework.

## ASSOCIATE IN SCIENCE DEGREE

### Degree Requirements

(Total Minimum Credits Required: 64)

(A complete list of General Education Core Curriculum transfer courses is available at the Illinois Articulation Initiative website: [www.itransfer.org](http://www.itransfer.org)).

Each candidate for an Associate in Science (A.S.) degree shall:

1. Select courses to complete the required credits from:
  - a. general education core requirement courses,
  - b. coursework in the Human Relations and Global/ Multicultural Studies or Contemporary Life Skills categories,
  - c. additional mathematics and science requirements, and
  - d. additional coursework

(See Notes at end of A.S. degree) to a minimum of 64 credits.
2. Satisfactorily complete a minimum of 37 credits in General Education Core Curriculum (Illinois Articulation Initiative course codes are listed in parentheses after each course or sequence) in the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories as specified below. (Note: Refer to p. 25 for a discussion of general education core requirements)
  - a. **Communication** .....9 credits  
 Written (6 credits) English 1101 (C1 900) and 1102 (C1 901R)  
 (Grade of "C" or higher required for both courses)  
 Oral (3 credits) Speech 1100 (C2 900)  
 (Grade of "C" or higher required)
  - b. **Physical and Life Sciences** .....7 to 10 credits  
 Select one course from Life Sciences and one course from Physical Sciences. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward your degree.) At least one course must have a laboratory component.

### Life Sciences

Anatomy and Physiology 1500 (L1 904L), 1551 (L1 904L), 1571 (L1 904L)  
 Biology 1100 (L1 900L), 1110 (L1 905L), 1120 (No Lab) (L1 906), 1130 (L1 906L), 1151 (L1 900L)  
 Botany 1310 (L1 901L)  
 Microbiology 1420 (L1 903L)

### Physical Sciences

Chemistry 1105 (P1 903L), 1211 (P1 902L), 1551 (P1 902L)  
 Earth Science 1101 (P1 907L), 1102 (P1 907L), 1110 (P1 905L), 1111 (No Lab) (P1 905), 1115 (P1 905L), 1122 (P1 906L), 1124 (P1 906L), 1126 (P1 906L), 1130 (P1 905L), 1135 (P1 905L), 1140 (P1 905L)  
 Physics 1100 (P1 900L), 1201 (P1 900L), 2111 (P2 900L)

### c. Mathematics .....3 to 5 credits

(Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward your degree.)

Mathematics 1218 (M1 904), 1220 (M1 901), 1322 (M1 903), 1533 (M1 906), 1635 (M1 902)\*, 2115 (M1 905), 2134 (M1 900-B), 2231 (M1 900-1), 2232 (M1 900-2), 2233 (M1 900-3),  
 Psychology 2280 (M1 902)\*  
 Sociology 2205 (M1 902)\*

\* Only one from these three courses may count toward overall degree requirement credit.

### d. Humanities and Fine Arts .....9 credits

Select at least one course from Humanities and at least one course from Fine Arts. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward your degree.)

### Humanities

Chinese 2202 (H1 900)  
 English 1130 (H3 900), 1150 (H3 901), 1151 (H3 901), 1152 (H3 903), 1153 (H3 902), 1154 (HF 908)\*, 1158 (H5 901), 1159 (H9 901), 1160 (H3 910D), 1161 (H3 910D), 1165 (H3 911D), 2220 (H3 912), 2221 (H3 913), 2223 (H3 914), 2224 (H3 915), 2226 (H3 907), 2227 (H3 907), 2228 (H3 905), 2262 (H3 908N)  
 French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)  
 German 2200 (H3 909), 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)  
 History 1110 (H2 901), 1120 (H2 902), 1160 (H2 907), 2205 (H2 903N), 2220 (H2 903N), 2225 (H2 908), 2230 (H2 908), 2235 (H2 903N)  
 Humanities 1102 (H9 900), 1103 (H9 901), 1105 (HF 904N)\*, 1110 (HF 906D)\*, 2019 (HF 907D)  
 Italian 2202 (H1 900)  
 Japanese 2202 (H1 900)  
 Korean 2202 (H1 900)  
 Philosophy 1100 (H4 900), 1110 (H4 904), 1116 (H4 904), 1117 (H4 901), 1118 (H4 902), 1120 (H4 906), 1125 (H4 906), 1145 (H4 905), 1150 (H5 904N)  
 Religious Studies 1100 (H5 900), 1110 (H5 901), 1120 (H5 901), 1150 (H5 904N), 1155 (H4 903N), 2160 (H5 901)  
 Russian 2202 (H1 900)  
 Spanish 2202 (H1 900), 2206 (H1 900), 2208 (H1 900), 2251 (H1 900), 2252 (H1 900)

*Fine Arts*

- Art 1100 (F2 900), 2211 (F2 901), 2212 (F2 902), 2213 (F2 902), 2214 (F2 903N)
- English 1135 (F2 908), 1154 (HF 908)\*
- Humanities 1101 (F9 900), 1105 (HF 904N)\*, 1110 (HF 906D)\*
- Music 1100 (F1 900), 1104 (F1 904), 1115 (F1 903N)
- Theater 1100 (F1 907)

*\*Interdisciplinary credit (HF) may be earned as either Fine Arts or Humanities.*

**e. Social and Behavioral Sciences** .....9 credits

Courses must be selected from at least two disciplines. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward the degree.)

- Anthropology 1100 (S1 901N), 1101 (S1 900N), 1105 (S1 904D), 1120 (S1 903), 1125 (S1 902), 1130 (S1 904D)
- Economics 2200 (S3 900), 2201 (S3 901), 2202 (S3 902)
- Geography 1100 (S4 901), 1105 (S4 902N), 1120 (S4 903N), 1130 (S4 900N), 1140 (S4 901)
- History 1130 (S2 900), 1140 (S2 901), 2210 (S2 907N), 2215 (S2 916N), 2260 (S2 901)
- Political Science 1100 (S5 903), 1101 (S5 900), 2203 (S5 905), 2220 (S5 904N)
- Psychology 1100 (S6 900), 2230 (S6 903), 2233 (S6 904), 2235 (S6 905), 2237 (S6 902), 2240 (S8 900)
- Sociology 1100 (S7 900), 1120 (S7 904D), 2210 (S7 901), 2215 (S7 903D), 2220 (S7 902)

**3. Fulfill these requirements in the categories specified**

- a. Complete at least one course from the Human Relations category. Refer to p. 26 for a list.
- b. Complete at least one course from the Global/Multicultural Studies or Contemporary Life Skills category. Refer to p. 26 for a list.

**4. Additional Mathematics and Science Requirements**

Select at least two courses from Physical and Life Sciences, and at least one course from Mathematics.

**a. Physical and Life Sciences**

Select at least two courses with a minimum total of 6 credits.

- Anatomy and Physiology 1551, 1571, 1552, 1572
- Biology 1130\*, 1140, 1151\*, 1152, 2150, 2151
- Botany 1320, 2350, 2360
- Microbiology 1420\*
- Zoology 1220, 2250, 2260
- Chemistry 1137, 1212, 2213, 1552, 2551, 2552
- Earth Science 1101\*, 1102\*, 1110\*, 1111\*, 1115\*, 1116, 1117, 1122\*, 1124\*, 1126\*, 1130\*, 1135\*, 1140\*, 2102, 2103, 2110, 2115, 2116, 2117
- Physics 1202, 2111\*, 2112, 2115

**b. Mathematics**

Select at least one course with a minimum total of 3 credits.

- Mathematics 1218,\* 1220\*, 1321, 1322\*, 1340, 1428, 1431, 1432, 1533\*, 1635\*, 2115\*, 2134\*, 2231\*, 2332\*, 2233\*, 2245, 2270, 2300

(\*Courses also meet general education requirements. If any of these courses is chosen to fulfill requirements for the General Education Core Curriculum, choose others to meet the Additional Mathematics and Science Requirements.)

Select courses to complete the required 64 credits from General Education Core Curriculum courses, elective courses (refer to p. 27), and up to 10 credits in occupational/vocational courses.

- 5. Satisfy graduation requirements for all associate's degrees (refer to p. 13).
- 6. Earn no more than 6 credits in History in the Humanities and Fine Arts, and Social and Behavioral Sciences categories combined for general education credit. Additional credits in History from general education or other categories may be earned as elective credit, unless restricted by degree requirements.
- 7. Earn no more than 4 credits in Physical Education activity courses.
- 8. Only one of the following courses may count toward the degree: Mathematics 1428 or Mathematics 1431.
- 9. Complete a minimum of two courses with a minimum of 6 credits in Physical and Life Sciences from the Additional Mathematics and Science Requirements category.
- 10. Complete a minimum of one course with a minimum of 3 credits in Mathematics from the Additional Mathematics and Science Requirements category.
- 11. Earn no more than 16 credits in courses numbered 1800 or 2800, 1840 or 2840, 1820 to 1829, and 2820 to 2829, or labeled as independent study, experimental/pilot, selected topics or field/experiential.
- 12. Earn no more than 12 credits with a satisfactory/fail grade option in courses counted toward elective credit.
- 13. Earn General Education Core Curriculum course credit with letter grades, not satisfactory/fail grades.
- 14. Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program.
- 15. Earn the remaining credits in courses that normally apply to a bachelor's degree as indicated in the transfer program guides.

*Notes:* For help in choosing additional coursework beyond the General Education Core to fulfill this degree, students should consult a faculty adviser from their area of interest for suggestions regarding course selection from the range of offerings in a specific field of study.

There is no guarantee that elective or occupational/vocational courses will transfer as specific course equivalents to a baccalaureate-granting institution or other colleges.

The transferability of these courses needs to be validated with a transfer institution.

Degree-seeking students should complete the General Education Core Curriculum and required sequence courses before transfer to another participating IAI institution to guarantee the completion of lower division general education coursework.

**ASSOCIATE IN ENGINEERING SCIENCE DEGREE****Degree Requirements**

(Total Minimum Credits Required: 68)

Students should check with an Engineering adviser at College of DuPage and consult the Transfer Guide at <http://home.cod.edu/academics/programsDegrees/engineering/engintrans/engintrans.aspx>

Each candidate for an Associate in Engineering Science (A.E.S.) degree shall:

1. Select courses to complete the required credits from:
  - a. general education core requirement courses,
  - b. essential prerequisite courses,
  - c. engineering specialty courses, and
  - d. elective courses.

to a minimum of 68 credits.
2. **General Education Core Courses** .....9 to 18 credits.  
(Refer to p. 25 for a discussion of general education core requirements)
  - a. **Communication** .....6 credits  
Written (6 credits) English 1101 (C1 900) and 1102 (C1 901R)  
(Grade of "C" or higher required in both courses)
  - b. **Humanities and Fine Arts** .....0 to 9 credits  
(Choose courses with different IAI codes.)  
*Humanities*  
Chinese 2202 (H1 900)  
English 1130 (H3 900), 1150 (H3 901), 1151 (H3 901), 1152 (H3 903), 1153 (H3 902), 1154 (HF 908)\*, 1158 (H5 901), 1159 (H9 901), 1160 (H3 910D), 1161 (H3 910D), 1165 (H3 911D), 2220 (H3 912), 2221 (H3 913), 2223 (H3 914), 2224 (H3 915), 2226 (H3 907), 2227 (H3 907), 2228 (H3 905), 2262 (H3 908N)  
French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900),  
German 2200 (H3 909), 2202 (H1 900), 2251 (H1 900), 2252 (H1 900),  
History 1110 (H2 901), 1120 (H2 902), 1160 (H2 907), 2205 (H2 903N), 2220 (H2 903N), 2225 (H2 908), 2230 (H2 908), 2235 (H2 903N)  
Humanities 1102 (H9 900), 1103 (H9 901), 1105 (HF 904N)\*, 1110 (HF 906D)\*, 2019 (HF 907D)  
Italian 2202 (H1 900)  
Japanese 2202 (H1 900)  
Korean 2202 (H1 900)  
Philosophy 1100 (H4 900), 1110 (H4 904), 1116 (H4 904), 1117 (H4 901), 1118 (H4 902), 1120 (H4 906), 1125 (H4 906), 1145 (H4 905), 1150 (H5 904N)  
Religious Studies 1100 (H5 900), 1110 (H5 901), 1120 (H5 901), 1150 (H5 904N), 1155 (H4 903N), 2160 (H5 901)  
Russian 2202 (H1 900)  
Spanish 2202 (H1 900), 2206 (H1 900), 2208 (H1 900), 2251 (H1 900), 2252 (H1 900)
  - Fine Arts*  
Art 1100 (F2 900), 2211 (F2 901), 2212 (F2 902), 2213 (F2 902), 2214 (F2 903N)  
English 1135 (F2 908), 1154 (HF 908)\*  
Humanities 1101 (F9 900), 1105 (HF 904N)\*, 1110 (HF 906D)\*  
Music 1100 (F1 900), 1104 (F1 904), 1115 (F1 903N)  
Theater 1100 (F1 907)

*\*Interdisciplinary credit may be earned as either Fine Arts or Humanities.*

- c. **Social and Behavioral Sciences**.....0 to 9 credits  
(Choose courses with different IAI codes.)  
Anthropology 1100 (S1 901N), 1101 (S1 900N), 1105 (S1 904D), 1120 (S1 903), 1125 (S1 902), 1130 (S1 904D)  
Economics 2200 (S3 900), 2201 (S3 901), 2202 (S3 902)  
Geography 1100 (S4 901), 1105 (S4 902N), 1120 (S4 903N), 1130 (S4 900N), 1140 (S4 901)  
History 1130 (S2 900), 1140 (S2 901), 2210 (S2 907N), 2215 (S2 916N), 2260 (S2 901)  
Political Science 1100 (S5 903), 1101 (S5 900), 2203 (S5 905), 2220 (S5 904N)  
Psychology 1100 (S6 900), 2230 (S6 903), 2233 (S6 904), 2235 (S6 905), 2237 (S6 902), 2240 (S8 900)  
Sociology 1100 (S7 900), 1120 (S7 904D), 2210 (S7 901), 2215 (S7 903D), 2220 (S7 902)
3. **Essential Prerequisite Courses**.....36 to 40 credits
  - a. **Mathematics**.....18 credits  
2231 (M1 900-1), 2232 (M1 900-2), 2233 (M1 900-3), 2270
  - b. **Chemistry** .....5 credits  
1551 (P1 902L)
  - c. **Physics** .....10 credits  
2111 (P2 900L) and 2112
  - d. Optional: Physics 2115 .....0 or 4 credits
  - e. **Computer Information Systems** .....3 credits  
2480 or 2485
4. **Engineering Specialty Courses**.....8 to 23 credits  
*Engineering*  
Choose from 1101, 2201, 2202, 2203, 2205, 2210, 2213  
*Other Sciences*  
Biology 1151 (L1 900L)  
Chemistry 1552, 2551, 2552
5. Select remaining elective courses from IAI General Education, Essential Prerequisite Courses and Engineering Specialty Courses to 68 credits.
6. Satisfy graduation requirements for all associate's degrees (refer to p. 13).
7. Earn no credit with a satisfactory/fail grade option.
8. Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program.

*Notes:* Courses listed under Essential Prerequisite Courses and Engineering Specialty Courses, as well as the A.E.S. degree, will transfer from COD based on criteria set by each baccalaureate-granting institution. Check with an Engineering adviser both at College of DuPage and your transfer institution.

See an Engineering adviser for the appropriate choices in Humanities, Social and Behavioral Sciences, and Fine Arts for transfer to your chosen program.

Students should complete entire course sequences in calculus and physics at the same school before transfer, since topics are covered in different orders by different schools.

Biology may be required for Bio-Engineering majors. See an Engineering adviser for help in choosing the correct biology course.

## ASSOCIATE IN APPLIED SCIENCE DEGREE

### Degree Requirements

(Total Minimum Credits Required: 64)

Each candidate for an Associate in Applied Science (A.A.S.) degree shall:

1. Select courses to complete the required credits from:
  - a. general education core requirement courses,
  - b. coursework in the Global/Multicultural Studies or Contemporary Life Skills category,
  - c. specific program occupational/vocational required courses, and
  - d. additional coursework if necessaryto a minimum of 64 credits, but due to external licensure and certification, programs may require more than 64 credits. A list of Applied Science degree options can be found in the Associate in Applied Science section of the *Catalog* starting on p. 33.
2. Satisfactorily complete a minimum of 18 credits in general education courses as specified below. (Refer to p. 25 for a discussion of general education core requirements)
  - a. **Communication** .....6 credits  
Written (3 credits) English 1101 or 1105  
Oral (3 credits) Speech 1100, 1120 or 1150
  - b. **Physical and Life Sciences** .....3 to 5 credits  
Refer to p. 26 for a list of specific areas in this category. Select at least one course with a laboratory component.
  - c. **Mathematics** .....3 to 5 credits  
Select a minimum of 3 credits (1000 level or above). Select Mathematics 1102, 1104 or 1120 only where required in the degree program. Only one from the following three courses may count toward overall degree requirement credit: Mathematics 1635, Psychology 2280 or Sociology 2205. Only one of the following courses may count toward overall degree credit: Mathematics 1428 or Mathematics 1431.
  - d. **Humanities and Fine Arts** .....3 credits  
Refer to p. 26 for a list of specific areas in this category.
  - e. **Social and Behavioral Sciences** .....3 credits  
Refer to p. 26 for a list of specific areas in this category.
3. Complete at least 2 credits from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills category. Refer to p. 26 for lists.
4. The minimum number of program-specific credits required for an A.A.S. degree varies with each program, but must total at least 20 credits.
5. Satisfy graduation requirements for all associate's degrees (refer to p. 13).
6. Earn no more than 16 credits in courses numbered 1800 or 2800, 1840 or 2840, 1820 to 1829, and 2820 to 2829, or labeled as independent study, experimental/pilot, selected topics or field/experiential.
7. Earn no more than 4 credits in Physical Education activity courses.
8. Earn no more than 12 credits with a satisfactory/fail grade option.
9. Earn no more than 42 credits by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program.

## ASSOCIATE IN FINE ARTS — ART

### Degree Requirements

(Total Minimum Credits Required: 67)

Each candidate for an Associate in Fine Arts — Art degree shall:

1. Select courses to complete the required credits from:
  - a. general education core requirement courses,
  - b. coursework in the Human Relations and Global/Multicultural Studies or Contemporary Life Skills categories, and
  - c. specific program required courses and studio electivesto a minimum of 67 credits.
2. Satisfactorily complete a minimum of 32 credits in general education courses as specified below. (Note: Refer to p. 25 for a discussion of general education core requirements)
  - a. **Communication** .....9 credits  
Written (6 credits) English 1101 (C1 900), 1102 (C1 901R) (Grade of "C" or higher required in both courses.)  
Oral (3 credits) Speech 1100 (C2 900) (Grade of "C" or higher required.)
  - b. **Physical and Life Sciences** .....7 to 10 credits  
Select one course from Life Sciences and one course from Physical Sciences. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward the degree.)  
  
At least one course must have a laboratory component. Students with sufficient preparation may select from IAI science majors courses. Check with [www.itransfer.org](http://www.itransfer.org). A minimum of eight credits must be selected from the following list:  
  
*Life Sciences*  
Anatomy and Physiology 1500 (L1 904L), 1551 (L1 904L), 1571 (L1 904L)  
Biology 1100 (L1 900L), 1110 (L1 905L), 1120 (No Lab) (L1 906), 1130 (L1 906L), 1151 (L1 900L)  
Botany 1310 (L1 901L)  
Microbiology 1420 (L1 903L)  
  
*Physical Sciences*  
Chemistry 1105 (P1 903L), 1211 (P1 902L), 1551 (P1 902L)  
Earth Science 1101 (P1 907L), 1110 (P1 905L), 1111 (No Lab) (P1 905), 1115 (P1 905L), 1122 (P1 906L), 1124 (P1 906L), 1126 (P1 906L), 1130 (P1 905L), 1135 (P1 905L), 1140 (P1 905L)  
Physics 1100 (P1 900L), 1201 (P1 900L), 2111 (P2 900L)
  - c. **Mathematics** .....3 to 5 credits  
Mathematics 1218 (M1 904), 1220 (M1 901), 1533 (M1 906), 1635 (M1 902)\*, 2115 (M1 905), 2134 (M1 900-B), 2231 (M1 900-1), 2232 (M1 900-2), 2233 (M1 900-3)  
Psychology 2280 (M1 902)\*  
Sociology 2205 (M1 902)\*  
  
(\*Only one from these three courses may count toward overall degree requirement credit. Mathematics 1322 may not be used to meet this requirement.)
  - d. **Humanities and Fine Arts** .....6 credits  
(Select at least one course from Humanities and the required Fine Arts course.)  
*Humanities*  
Chinese 2202 (H1 900)  
English 1130 (H3 900), 1150 (H3 901), 1151 (H3 901), 1152 (H3 903), 1153 (H3 902), 1154 (HF 908), 1158 (H5 901), 1159 (H9 901), 1160 (H3 910D), 1161 (H3 910D), 1165 (H3 911D), 2220 (H3 912), 2221 (H3 913), 2223 (H3 914), 2224 (H3 915), 2226 (H3 907), 2227 (H3 907), 2228 (H3 905), 2262 (H3 908N)

French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)  
 German 2200 (H3 909), 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)  
 History 1110 (H2 901), 1120 (H2 902), 1160 (H2 907), 2205 (H2 903N), 2220 (H2 903N), 2225 (H2 908), 2230 (H2 908), 2235 (H2 903N)  
 Humanities 1102 (H9 900), 1103 (H9 901), 1105 (HF 904N), 1110 (HF 906D), 2019 (HF 907D)  
 Italian 2202 (H1 900)  
 Japanese 2202 (H1 900)  
 Korean 2202 (H1 900)  
 Philosophy 1100 (H4 900), 1110 (H4 904), 1116 (H4 904), 1117 (H4 901), 1118 (H4 902), 1120 (H4 906), 1125 (H4 906), 1145 (H4 905), 1150 (H5 904N)  
 Religious Studies 1100 (H5 900), 1110 (H5 901), 1120 (H5 901), 1150 (H5 904N), 1155 (H4 903N), 2160 (H5 901)  
 Russian 2202 (H1 900)  
 Spanish 2202 (H1 900), 2206 (H1 900), 2208 (H1 900), 2251 (H1 900), 2252 (H1 900)

*Fine Arts*

Art 2214 (F2 903N)

e. **Social and Behavioral Sciences**.....6 credits

(Choose courses with different IAI codes from two different subjects.)

Anthropology 1100 (S1 901N), 1101 (S1 900N), 1105 (S1 904D), 1120 (S1 903), 1125 (S1 902), 1130 (S1 904D)

Economics 2200 (S3 900), 2201 (S3 901), 2202 (S3 902)

Geography 1100 (S4 901), 1105 (S4 902N), 1120 (S4 903N), 1130 (S4 900N)

History 1130 (S2 900), 1140 (S2 901), 2210 (S2 907N), 2215 (S2 916N), 2260 (S2 901)

Political Science 1100 (S5 903), 1101 (S5 900), 2203 (S5 905), 2220 (S5 904N)

Psychology 1100 (S6 900), 2230 (S6 903), 2233 (S6 904), 2235 (S6 905), 2237 (S6 902), 2240 (S8 900)

Sociology 1100 (S7 900), 1120 (S7 904D), 2210 (S7 901), 2215 (S7 903D), 2220 (S7 902)

3. a. Complete at least one course from the Human Relations category. Refer to p. 26 for a list.
- b. Complete at least one course from the Global/Multicultural Studies or Contemporary Life Skills category. Art 2214 meets the Global/Multicultural Studies requirement and is required for Art majors.
4. Satisfactorily complete a minimum of 36 credits in Art requirements as specified below:
  - a. **Art History** .....9 credits  
 Art 2211, 2212, 2213  
 (Complete the Art History sequence at College of DuPage before transfer.)
  - b. **Art Core Courses**.....15 credits  
 Art 1101, 1102, 2201, 1151, 1152  
 (Complete the Art Core courses before enrolling in media-specific courses.)
  - c. **Media-Specific Studio Electives**.....9 credits  
 (Select courses from at least two media in consultation with an Art program adviser. A portfolio review usually is required for transfer.)  
 Art 2221 and Art 2222;2241 and 2242; 2231 and 2232;2275 and 2276; 2251 and 2252; 2266 and 2267  
 Graphic Design 1107 and 1108  
 Photo 1100 and 1102
  - d. An additional Art elective at the 2000 level of 3 credits

5. Complete all requirements for all associate's degrees, including the A.F.A., with a minimum of 67 credits.
6. Earn no more than 6 credits in History in the Humanities and Fine Arts, and Social and Behavioral Sciences categories combined for general education credit.
7. Earn no credit with a satisfactory/fail grade option.
8. Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program.

*Notes:* Although designed to meet transfer requirements, the A.F.A. degree may not complete the requirements of the Illinois Articulation Initiative (IAI) General Education Core Curriculum for lower division general education requirements at participating schools.

Students will need to fulfill the General Education requirements of the school to which they transfer. Transfer admission is competitive. Completion of the A.F.A. does not guarantee admission either to a baccalaureate program or to upper division art courses. Students may be required to demonstrate their skill level through audit, placement test or portfolio review. Most schools require a portfolio review for admission to a bachelor in fine arts program, for registration in a second studio course in a medium, and/or for scholarship consideration. Students are encouraged to complete the A.F.A. degree prior to transferring.

## ASSOCIATE IN FINE ARTS DEGREE — MUSIC

### Degree Requirements

(Total Minimum Credits Required: 64)

Each candidate for an Associate in Fine Arts — Music degree shall:

1. Select courses to complete the required credits from:
  - a. general education core requirement courses,
  - b. coursework in the Human Relations and Global/Multicultural Studies or Contemporary Life Skills categories, and
  - c. specific program required courses
 to a minimum of 64 credits.
2. Satisfactorily complete a minimum of 29 credits in General Education Core Curriculum (Illinois Articulation Initiative course codes are listed in parentheses after each course or sequence) in the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories as specified below. (Note: Refer to p. 25 for a discussion of general education core requirements)
  - a. **Communication** .....9 credits  
 Written (6 credits) English 1101 (C1 900) and 1102 (C1 901R) (Grade of "C" or higher required for both courses.)  
 Oral (3 credits) Speech 1100 (C2 900) (Grade of "C" or higher required.)
  - b. **Physical and Life Sciences** .....8 to 10 credits  
 Select one course from Life Sciences and one course from Physical Sciences. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward the degree.)  
 At least one course must have a laboratory component.

Students with sufficient preparation may select from IAI science majors courses. Check with [www.itransfer.org](http://www.itransfer.org).

A minimum of 8 credits must be selected from the following list:

*Life Sciences*

Anatomy and Physiology 1500 (L1 904L), 1551 (L1 904L), 1571 (L1 904L)  
 Biology 1100 (L1 900L), 1110 (L1 905L), 1120 (No Lab) (L1 906), 1130 (L1 906L), 1151 (L1 900L)  
 Botany 1310 (L1 901L)  
 Microbiology 1420 (L1 903L)

*Physical Sciences*

Chemistry 1105 (P1 903L), 1211 (P1 902L), 1551 (P1 902L)  
 Earth Science 1101 (P1 907L), 1110 (P1 905L), 1111 (No Lab) (P1 905), 1115 (P1 905L), 1122 (P1 906L), 1124 (P1 906L), 1126 (P1 906L), 1130 (P1 905L), 1135 (P1 905L), 1140 (P1 905L)  
 Physics 1100 (P1 900L), 1201 (P1 900L), 2111 (P2 900L)

c. **Mathematics**.....3 to 5 credits

Mathematics 1218 (M1 904), 1220 (M1 901), 1533 (M1 906), 1635 (M1 902)\*, 2115 (M1 905), 2134 (M1 900-B), 2231 (M1 900-1), 2232 (M1 900-2), 2233 (M1 900-3)  
 Psychology 2280 (M1 902)\*  
 Sociology 2205 (M1 902)\*

(\*Only one from these three courses may count toward overall degree requirement credit. Mathematics 1322 may not be used to meet this requirement.)

d. **Humanities and Fine Arts**.....6 credits

(Select at least one course from Humanities and at least one course from Fine Arts with different IAI codes.)

*Humanities*

Chinese 2202 (H1 900)  
 English 1130 (H3 900), 1150 (H3 901), 1151 (H3 901), 1152 (H3 903), 1153 (H3 902), 1154 (HF 908)\*, 1158 (H5 901), 1159 (H9 901), 1160 (H3 910D), 1161 (H3 910D), 1165 (H3 911D), 2220 (H3 912), 2221 (H3 913), 2223 (H3 914), 2224 (H3 915), 2226 (H3 907), 2227 (H3 907), 2228 (H3 905), 2262 (H3 908N)  
 French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)  
 German 2200 (H3 909), 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)  
 History 1110 (H2 901), 1120 (H2 902), 1160 (H2 907), 2205 (H2 903N), 2220 (H2 903N), 2225 (H2 908), 2230 (H2 908), 2235 (H2 903N)  
 Humanities 1102 (H9 900), 1103 (H9 901), 1105 (HF 904N)\*, 1110 (HF 906D)\*, 2019 (HF 907D)  
 Italian 2202 (H1 900)  
 Japanese 2202 (H1 900)  
 Korean 2202 (H1 900)  
 Philosophy 1100 (H4 900), 1110 (H4 904), 1116 (H4 904), 1117 (H4 901), 1118 (H4 902), 1120 (H4 906), 1125 (H4 906), 1145 (H4 905), 1150 (H5 904N),  
 Religious Studies 1100 (H5 900), 1110 (H5 901), 1120 (H5 901), 1150 (H5 904N), 1155 (H4 903N), 2160 (H5 901)  
 Russian 2202 (H1 900)  
 Spanish 2202 (H1 900), 2206 (H1 900), 2208 (H1 900), 2251 (H1 900), 2252 (H1 900)

*Fine Arts*

Art 1100 (F2 900), 2211 (F2 901), 2212 (F2 902), 2213 (F2 902), 2214 (F2 903N)  
 English 1135 (F2 908), 1154 (HF 908)\*  
 Humanities 1101 (F9 900), 1105 (HF 904N)\*, 1110 (HF 906D)\*  
 Theater 1100 (F1 907)

\*Interdisciplinary credit may be earned as either Fine Arts or Humanities. No Music courses may fulfill this requirement.

e. **Social and Behavioral Sciences**.....3 credits

Anthropology 1100 (S1 901N), 1101 (S1 900N), 1105 (S1 904D), 1120 (S1 903), 1125 (S1 902), 1130 (S1 904D)  
 Economics 2200 (S3 900), 2201 (S3 901), 2202 (S3 902)  
 Geography 1100 (S4 901), 1105 (S4 902N), 1120 (S4 903N), 1130 (S4 900N)  
 History 1130 (S2 900), 1140 (S2 901), 2210 (S2 907N), 2215 (S2 916N), 2260 (S2 901)  
 Political Science 1100 (S5 903), 1101 (S5 900), 2203 (S5 905), 2220 (S5 904N)  
 Psychology 1100 (S6 900), 2230 (S6 903), 2233 (S6 904), 2235 (S6 905), 2237 (S6 902), 2240 (S8 900)  
 Sociology 1100 (S7 900), 1120 (S7 904D), 2210 (S7 901), 2215 (S7 903D), 2220 (S7 902)

3. a. Complete one course from the Human Relations category Refer to p. 26 for a list.  
 b. Complete one course from the Contemporary Life Skills or Global/Multicultural Studies category. Refer to p. 26 for lists.
4. Satisfactorily complete a minimum of 35 credits in Music requirements as specified below:
  - a. **Music Core Courses**.....20 credits  
 Music 1101 + 1107 + 1171, 1102 + 1108 + 1172, 2201 + 2207 + 2271, 2202 + 2208 + 2272
  - b. **Music Literature/History Course** .....3 credits  
 Music 1105
  - c. **Music Ensemble Courses** .....4 credits  
 Music 1120, 1125, 1130, 1140, 1141, 1150, 1153, 1180, 1181, 1190, 1191, 1192, 1193
  - d. **Applied Instruction Courses** .....8 credits  
 Music 1185 (Private music lessons I to IV. Take one course each term for a total of 8 credits.)
5. Complete all requirements for all associate's degrees, including a minimum of 64 credits for the A.F.A.
6. Earn no more than 6 credits in History in the Humanities and Fine Arts, and Social and Behavioral Sciences categories combined for general education credit. Additional credits in History from general education or other categories may be earned as elective credit.
7. Earn no credit with a satisfactory/fail grade option.
8. Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program.
9. Show keyboard competence through one of the following options: Complete either Music 2272, complete four semesters of Music 1185 on piano, or show keyboard proficiency by demonstrated competence through the College of DuPage Proficiency Through an Instructor Program. See a Music adviser for further information.

*Notes:* Although designed to meet transfer requirements, the A.F.A. degree does not complete the requirements of the Illinois Articulation Initiative (IAI) General Education Core Curriculum for lower division general education requirements at participating schools.

Students will need to fulfill the General Education requirements of the school to which they transfer. Completion of the A.F.A. does not guarantee admission either to a baccalaureate program or to upper division music courses. Students may be required to demonstrate their skill level through audit, placement test, audition or review of student recordings. Students are encouraged to complete the A.F.A. degree prior to transferring.

**ASSOCIATE IN GENERAL STUDIES DEGREE****Degree Requirements**

(Total Minimum Credits Required: 64)

Each candidate for the Associate in General Studies (A.G.S.) degree shall:

1. Select courses to complete the required credits from:
  - a. general education core requirement courses,
  - b. coursework in the Global/Multicultural or Contemporary Life Skills category,
  - c. occupational/vocational courses, and
  - d. additional coursework
 to a minimum of 64 credits.
2. Satisfactorily complete a minimum of 27 credits in general education courses as specified below. Note: Refer to p. 25 for a discussion on general education core requirements
  - a. **Communication** .....9 credits  
Written (6 credits) English 1101 and 1102  
Oral (3 credits) Speech 1100, 1120 or 1150
  - b. **Physical and Life Sciences** .....3 to 5 credits  
Select at least one course with a laboratory component.
  - c. **Mathematics** .....3 to 5 credits  
Select a minimum of 3 credits of 1000 level or higher except Mathematics 1102 and 1104 to meet general education requirements. Only one of the following three statistics courses will count toward overall degree requirement credit: Mathematics 1635, Psychology 2280 or Sociology 2205. Only one of the following courses may count toward overall degree credit: Mathematics 1428 or 1431.
  - d. **Humanities and Fine Arts** .....6 credits  
Select courses from at least two subject areas.
  - e. **Social and Behavioral Sciences** .....6 credits  
Select courses from at least two subject areas.
 Refer to p. 25 for a list of specific subject areas listed in the general education categories above.
3. **Global/Multicultural Studies or Contemporary Life Skills** .....2 credits  
Complete at least two credits from the Global/Multicultural Studies or Contemporary Life Skills category.
4. Select courses to complete the required minimum of 64 credits from general education courses, elective courses and occupational/vocational courses to a maximum of 37 credits.
5. Satisfy graduation degree requirements for all associate's degrees (refer to p. 13).
6. Earn no more than 42 credits by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program.
7. Earn no more than 16 credits in courses numbered 1800 or 2800, 1840 or 2840, 1820 to 1829, and 2820 to 2829, or labeled as independent study, experimental/pilot, selected topics or field/experiential.
8. Earn no more than 4 credits in Physical Education activity courses.
9. Earn no more than 12 credits with a satisfactory/fail grade option.
10. Earn no more than 6 credits History from the Humanities and Fine Arts, and the Social and Behavioral Science categories combined. Additional credits in History may be earned as elective credit.

**ASSOCIATE IN ARTS IN TEACHING SECONDARY MATHEMATICS DEGREE****Degree Requirements**

(Total Minimum Credits Required: 64)

Each candidate for an Associate in Arts in Teaching Secondary Mathematics (A.A.T.) degree shall:

1. Select courses to complete the required credits from:
  - a. general education core requirement courses  
One of these courses must have the IAI program suffix N or D to fulfill state requirements for a global diversity and multiculturalism-related course as part of an education degree program.
  - b. coursework in the Human Relations and Global/ Multicultural Studies categories from courses which also fulfill the general education core requirements and Education 1100 to fulfill the Contemporary Life Skills requirement,
  - c. mathematics specialty courses,
  - d. education specialty courses and
  - e. additional coursework
 to a minimum of 64 credits.
2. Satisfactorily complete a minimum of 40 credits in General Education Core Curriculum (Illinois Articulation Initiative course codes are listed in parentheses after each course or sequence) in the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories as specified below. One of these courses must have the IAI program suffix N or D to fulfill state requirements for a global diversity and multiculturalism-related course as part of an education degree program. (Note: Refer to p. 25 for a discussion of general education core requirements)
  - a. **Communication** .....9 credits  
Written (6 credits) English 1101 (C1 900) and 1102 (C1 901R) (Grade of "C" or higher required for both courses.)  
Oral (3 credits) Speech 1100 (C2 900) (Grade of "C" or higher required.)
  - b. **Physical and Life Sciences** .....8 to 10 credits  
Select one course from Life Sciences and one course from Physical Sciences. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward your degree.) At least one course must have a laboratory component.  
*Life Sciences*  
Anatomy and Physiology 1500 (L1 904L),  
1551 (L1 904L), 1571 (L1 904L)  
Biology 1100 (L1 900L), 1110 (L1 905L),  
1120 (No Lab) (L1 906), 1151 (L1 900L)  
Botany 1310 (L1 901L)  
Microbiology 1420 (L1 903L)  
  
**Physical Sciences**  
Chemistry 1105 (P1 903L), 1211 (P1 902L), 1551 (P1 902L)  
Earth Science 1101 (P1 907L), 1102 (P1 907L),  
1110 (P1 905L), 1111 (No Lab) (P1 905), 1115 (P1 905L), 1122 (P1 906L), 1124 (P1 906L), 1126 (P1 906L),  
1130 (P1 905L), 1135 (P1 905L), 1140 (P1 905L)  
Physics 1100 (P1 900L), 1201 (P1 900L),  
2111 (P2 900L) (Recommended because of applied calculus content)

- c. **Mathematics**.....5 credits  
Mathematics 2231 (M1 900-1)
- d. **Humanities and Fine Arts**.....9 credits  
Select at least one course from Humanities and at least one course from Fine Arts. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward your degree.)

*Humanities*

- Chinese 2202 (H1 900)  
English 1130 (H3 900), 1150 (H3 901),  
1151 (H3 901), 1152 (H3 903), 1153 (H3 902), 1154 (HF 908)\*, 1158 (H5 901), 1159 (H9 901), 1160 (H3 910D), 1161 (H3 910D), 1165 (H3 911D), 2220 (H3 912), 2221 (H3 913), 2223 (H3 914), 2224 (H3 915), 2226 (H3 907), 2227 (H3 907), 2228 (H3 905), 2262 (H3 908N)  
French 2202 (H1 900), 2251(H1 900), 2252 (H1 900)  
German 2200 (H3 909), 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)  
History 1110 (H2 901), 1120 (H2 902), 1160 (H2 907), 2205 (H2 903N), 2220 (H2 903N), 2225 (H2 908), 2230 (H2 908), 2235 (H2 903N)  
Humanities 1102 (H9 900), 1103 (H9 901), 1105 (HF 904N)\*, 1110 (HF 906D)\*, 2019 (HF 907D)  
Italian 2202 (H1 900)  
Japanese 2202 (H1 900)  
Korean 2202 (H1 900)  
Philosophy 1100 (H4 900), 1110 (H4 904), 1116 (H4 904), 1117 (H4 901), 1118 (H4 902), 1120 (H4 906), 1125 (H4 906), 1145 (H4 905), 1150 (H5 904N)  
Religious Studies 1100 (H5 900), 1110 (H5 901), 1120 (H5 901), 1150 (H5 904N), 1155 (H4 903N), 2160 (H5 901)  
Russian 2202 (H1 900)  
Spanish 2202 (H1 900), 2206 (H1 900), 2208 (H1 900), 2251 (H1 900), 2252 (H1 900)

*Fine Arts*

- Art 1100 (F2 900), 2211 (F2 901), 2212 (F2 902), 2213 (F2 902), 2214 (F2 903N)  
English 1135 (F2 908), 1154 (HF 908)\*  
Humanities 1101 (F9 900), 1105 (HF 904N)\*, 1110 (HF 906D)\*  
Music 1100 (F1 900), 1104 (F1 904), 1115 (F1 903N)  
Theater 1100 (F1 907)

*\*Interdisciplinary credit (HF) may be earned as either Fine Arts or Humanities.*

- e. **Social and Behavioral Sciences**.....9 credits  
Courses must be selected from at least two disciplines. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward the degree.)  
Anthropology 1100 (S1 901N), 1101 (S1 900N), 1105 (S1 904D), 1120 (S1 903), 1125 (S1 902), 1130 (S1 904D)  
Economics 2200 (S3 900), 2201 (S3 901), 2202 (S3 902)  
Geography 1100 (S4 901), 1105 (S4 902N), 1120 (S4 903N), 1130 (S4 900N), 1140 (S4 901)  
History 1130 (S2 900), 1140 (S2 901), 2210 (S2 907N), 2215 (S2 916N), 2260 (S2 901)  
Political Science 1100 (S5 903), 1101 (S5 900), 2203 (S5 905), 2220 (S5 904N)  
Psychology 1100 (S6 900), 2230 (S6 903), 2233 (S6 904), 2235 (S6 905), 2237 (S6 902), 2240 (S8 900)  
Sociology 1100 (S7 900), 1120 (S7 904D), 2210 (S7 901), 2215 (S7 903D), 2220 (S7 902)
3. **Mathematics Specialty Courses**.....13 credits  
Mathematics 2232 (M1 900-2), 2233 (M1 900-3), 2245

4. **Education Specialty Courses** .....9 credits  
Education 1100 Required. To complete the 9 credits, choose from Education 1150 , 2201  
Psychology 2220, 2230, 2233 or 2237
5. Fulfill these requirements in the categories specified
- a. Complete at least one course from the Human Relations category which also fulfills General Education Core Requirements:  
Anthropology 1100 (S1 901N), 1101 (S1 900N), 1105 (S1 904D), 1130 (S1 904D)  
Art 1100 (F2 900)  
English 1160 (H3 910D), 1161 (H3 910D), 1165 (H3 911D)  
Geography 1130 (S4 900N)  
Humanities 1110 (HF 906D)  
Philosophy 1110 (H4904), 1117 (H4 901), 1118 (H4 902)  
Psychology 2235 (S6 905), 2240 (S8 900)  
Sociology 1100 (S7 900), 1120 (S7 904D), 2215 (S7 903D)
- b. Complete at least one course from the Global/Multicultural Studies category which also fulfills General Education Core Requirements.  
Anthropology 1100 (S1 901N), 1101 (S1 900N), 1105 (S1 904D), 1125 (S1 902), 1130 (S1 904D);  
Art 1100 (F2 900), 2214 (F2 903N)  
Chinese 2202 (H1 900)  
English 1160 (H3 910D), 1161 (H3 910D), 2226 (H3 907), 2227 (H3 907)  
French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900);  
Geography 1100 (S4 901), 1105 (S4 902N), 1120 (S4 903N)  
German 2200 (H1 900), 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)  
History 2205 (H2 903N), 2210 (S2 907N), 2215 (S2 916N), 2220 (H2 903N), 2225 (H2 908), 2230 (H2 908), 2235 (H2 903N)  
Humanities 1105 (HF 904N)  
Italian 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)  
Japanese 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)  
Korean 2202 (H1 900)  
Music 1104 (IAI F1 904), 1115 (F1 903N)  
Philosophy 1110 (H4 904), 1116 (H4 904), 1150 (H5 904N)  
Political Science 2203 (S5 905), 2220 (S5 904N)  
Religious Studies 1100 (H5 900), 1150 (H5 904N), 1155 (H4 903N), 2160 (H5 901)  
Russian 2202 (H1 900)  
Sociology 2210 (S7 901), 2220 (S7 902)  
Spanish 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)
- c. Complete this course from the Contemporary Life Skills category which also fulfills Education Specialty Course Requirements: Education 1100.
6. Select courses to complete the minimum required 64 credits from General Education Core Curriculum courses, elective courses (refer to p. 27), and occupational/vocational courses.
7. Satisfy graduation requirements for all associate's degrees (refer to p. 13).
8. Earn no credit with a satisfactory/fail grade.
9. Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program. However, policies on acceptance of AP, CLEP, and Proficiency by Instructor credits vary among academic programs and from institution to institution. Be sure to consult Education and Mathematics advisers as to the transferability of these credits to a specific baccalaureate-granting institution.

Notes: See Education and Mathematics advisers for the appropriate choices in Mathematics, Physical and Life Sciences, Humanities, Social and Behavioral Sciences, and Fine Arts for transfer to your chosen program.

## ASSOCIATE IN ARTS IN TEACHING EARLY CHILDHOOD EDUCATION DEGREE

### Degree Requirements

(Total Minimum Credits Required: 64)

Each candidate for an Associate of Arts in Teaching Early Childhood Education (A.A.T.) degree shall:

1. Select courses to complete the required credits from:
  - a. general education core requirement courses; one of these courses must have the IAI program suffix N or D to fulfill state requirements for a global diversity and multiculturalism-related course as part of an education degree program,
  - b. coursework in the Human Relations and Global/Multicultural Studies categories from courses which also fulfill the general education core requirements and Education 1100 to fulfill the Contemporary Life Skills requirement,
  - c. professional education courses,
  - d. early childhood education specialty courses and
  - e. elective courses.

to a minimum of 64 credits.
2. Satisfactorily complete a minimum of 41 credits in General Education Core Curriculum (Illinois Articulation Initiative course codes are listed in parentheses after each course or sequence) in the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories as specified below. At least one of these courses must have the IAI program suffix N or D to fulfill state requirements for a global diversity and multiculturalism-related course as part of an education degree program (Note: Refer to p. 25 for a discussion of general education core requirements)
  - a. **Communication** .....9 credits  
 Written (6 credits) English 1101 (C1 900) and 1102 (C1 901R) (Grade of "C" or higher required for both courses.)  
 Oral (3 credits) Speech 1100 (C2 900) (Grade of "C" or higher required.)
  - b. **Physical and Life Sciences** ..... 7 to 10 credits  
 Select one course from Life Sciences and one course from Physical Sciences. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward your degree.) At least one course must have a laboratory component.

#### Life Sciences

Anatomy and Physiology 1500 (L1 904L), 1551 (L1 904L)  
 Biology 1100 (L1 900L), 1110 (L1 905L),  
 1120 (No Lab) (L1 906), 1151 (L1 900L)  
 Botany 1310 (L1 901L)  
 Microbiology 1420 (L1 903L)

#### Physical Sciences

Chemistry 1105 (P1 903L), 1211 (P1 902L), 1551 (P1 902L)  
 Earth Science 1101 (P1 907L), 1102 (P1 907L), 1110 (P1 905L), 1111 (No Lab) (IAI P1 905), 1115 (P1 905L), 1122 (P1 906L), 1124 (P1 906L), 1126 (P1 906L), 1130 (P1 905L), 1140 (P1 905L)  
 Physics 1100 (P1 900L), 1201 (P1 900L), 2111 (P2 900L)

- c. **Mathematics** .....7 credits  
 Mathematics 1321  
 Mathematics 1322 (M1 903)
- d. **Humanities and Fine Arts** .....9 credits

Select at least one course from Humanities and at least one course from Fine Arts. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward your degree.)

#### Humanities

Chinese 2202 (H1 900)  
 English 1130 (H3 900), 1150 (H3 901),  
 1151 (H3 901), 1152 (H3 903), 1153 (H3 902), 1154 (HF 908)\*, 1158 (H5 901), 1159 (H9 901), 1160 (H3 910D),  
 1161 (H3 910N), 1165 (H3 911D), 2220 (H3 912), 2221 (H3 913), 2223 (H3 914), 2224 (H3 915), 2226 (H3 907), 2227 (H3 907), 2228 (H3 905), 2262 (H3 908N)  
 French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)  
 German 2200 (H3 909), 2202 (H1 900),  
 2251 (H1 900), 2252 (H1 900)  
 History 1110 (H2 901), 1120 (H2 902), 1160 (H2 907),  
 2205 (H2 903N), 2220 (H2 903N), 2235 (H2 903N)  
 Humanities 1102 (H9 900), 1103 (H9 901), 1105 (HF 904N)\*,  
 1110 (HF 906D)\*  
 Italian 2202 (H1 900)  
 Japanese 2202 (H1 900)  
 Korean 2202 (H1 900)  
 Philosophy 1100 (H4 900), 1110 (H4 904), 1116 (H4 904),  
 1117 (H4 901), 1118 (H4 902), 1120 (H4 906),  
 1125 (H4 906), 1145 (H4 905), 1150 (H5 904N)  
 Religious Studies 1100 (H5 900), 1110 (H5 901),  
 1120 (H5 901), 1150 (H5 904N), 1155 (H4 903N),  
 2160 (H5 901)  
 Russian 2202 (H1 900)  
 Spanish 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)

#### Fine Arts

Art 1100 (F2 900), 2211 (F2 901), 2212 (F2 902),  
 2213 (F2 902), 2214 (F2 903N)  
 English 1135 (F2 908), 1154 (HF 908)\*  
 Humanities 1101 (F9 900), 1105 (HF 904N)\*, 1110 (HF 906D)\*,  
 2019 (HF 907D)  
 Music 1100 (F1 900), 1104 (F1 904), 1115 (F1 903N)  
 Theater 1100 (F1 907)

\* *Interdisciplinary credit may be earned as either Fine Arts or Humanities.*

- e. **Social and Behavioral Sciences** .....9 credits  
 Courses must be selected from at least two disciplines. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward the degree.)

Anthropology 1100 (S1 901N), 1105 (S1 904D),  
 1120 (S1 903), 1125 (S1 902), 1130 (S1 904D)  
 Economics 2200 (S3 900), 2201 (S3 901), 2202 (S3 902),  
 Geography 1100 (S4 901), 1105 (S4 902N),  
 1120 (S4 903N), 1130 (S4 900N), 1140 (S4 901)  
 History 1130 (S2 900), 1140 (S2 901), 2210 (S2 907N), 2215 (S2 916N), 2260 (S2 901)  
 Political Science 1100 (S5 903), 1101 (S5 900),  
 2203 (S5 905), 2220 (S5 904N)  
 Psychology 1100: required if students want to take  
 Psychology 2220 under ICCB Professional Education Requirements (S6 900), 2230 (S6 903),  
 2233 (S6 904), 2235 (S6 905), 2237 (S6 902),  
 2240 (S8 900)  
 Sociology 1100 (S7 900), 1120 (S7 904D),  
 2210 (S7 901), 2215 (S7 903D), 2220 (S7 902)

3. **Professional Education Courses** .....6 to 9 credits  
Required: Education 1100, Early Childhood Education and Care 1101  
May choose additional coursework from Education 1150, 2201; Psychology 2220
4. **Early Childhood Education Specialty Courses** .....15 credits  
Early Childhood Education and Care 1100, 1130,1140, 2251, 2252
5. Fulfill these requirements in the categories specified
  - a. Complete at least one course from the Human Relations category which also fulfills General Education Core Requirements. (Anthropology 1100, 1101, 1105, 1130; Art 1100; English 1160, 1161, 1165; Geography 1130; Humanities 1110; Philosophy 1110, 1117, 1118; Psychology 2235, 2240; Sociology 1100, 1120, 2215)
  - b. Complete at least one course from the Global/Multicultural Studies category which also fulfills General Education Core Requirements.  
(Anthropology 1100, 1101, 1105, 1125, 1130; Art 1100, 2214; Chinese 2202; English 1160, 1161, 2226, 2227, 2262; French 2202, 2251, 2252; Geography 1100, 1105, 1120; German 2200, 2202, 2251, 2252; History 2205, 2210, 2215, 2220, 2225, 2230, 2235; Humanities 1105; Italian 2202, 2251, 2252; Japanese 2202, 2251, 2252; Korean 2202; Music 1104, 1115; Philosophy 1110, 1116, 1150; Political Science 2203, 2220; Religious Studies 1100, 1150, 1155, 2160; Russian 2202; Sociology 2210, 2220; Spanish 2202, 2251, 2252)
  - c. Complete this course from the Contemporary Life Skills category which also fulfills Professional Education Course Requirement: Education 1100.
6. Select courses to complete the minimum required 64 credits from General Education Core Curriculum courses, elective courses (refer to p. 27), and occupational/vocational courses.
7. Satisfy graduation requirements for all associate's degrees (refer to p. 13).
8. Earn no more than 6 History credits in the Humanities and Fine Arts, and Social and Behavioral Sciences categories combined for general education credit. Additional credits in History from general education or other categories may be earned as elective credit.
9. Earn no credit with a satisfactory/fail grade option.
10. Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program. However, policies on acceptance of AP, CLEP, and Proficiency by Instructor credits vary among academic programs and from institution to institution. Be sure to consult Education and Mathematics advisers as to the transferability of these credits to a specific baccalaureate-granting institution.
11. Successfully pass the Illinois Test of Enhanced Basic Skills.
12. Maintain a grade point average (GPA) of 2.5 or higher.
13. Develop a portfolio.

*Notes:* See Early Childhood Education adviser for the appropriate choices in Mathematics, Physical and Life Sciences, Humanities, Social and Behavioral Sciences, Fine Arts, Professional Education and Early Childhood Education specialty classes for transfer to your chosen program.

## GENERAL EDUCATION

General Education refers to a broad body of knowledge and skills common to all educated people, regardless of their profession. A strong general education curriculum includes courses in the arts; the humanities which include literature, history, philosophy, and foreign languages; mathematics, natural sciences, and the social sciences. In 2009, College of DuPage Faculty ratified the following General Education Student Learning Outcomes for students enrolled in all associate degree programs.

### General Education Student Learning Outcomes

Each of these eight outcomes can be described by a corresponding list of measurable skills. The outcomes should be considered to be satisfied when each measurable skill has been demonstrated.

#### *Critical Thinking*

- a. Identify and challenge assumptions, including one's own
- b. Develop and present solutions to problems or issues
- c. Evaluate practical and ethical implications
- d. Provide a researched, logically structured argument
- e. Apply scholarly methodology

#### *Information Literacy*

- a. Explain the need for information
- b. Develop a plan for finding the needed information
- c. Locate information effectively and efficiently
- d. Evaluate information and its sources critically
- e. Use information effectively, ethically, and legally to accomplish a specific purpose

#### *Knowledge Integration*

- a. Evaluate contemporary social issues in scientific, historical, ethical, or aesthetic terms
- b. Make connections between subject areas
- c. Critically evaluate opinions
- d. Use interdisciplinary thinking in everyday life

#### *Effective Communication*

- a. Analyze the context of a speaker's or writer's message or argument
- b. Analyze the language of a text as well as visual and non-verbal elements of a presentation
- c. Critically evaluate and discuss ideas in speeches and texts
- d. Formulate coherent, well-supported arguments in speech or writing using appropriate oral and written conventions
- e. Use language and rhetoric appropriate to the setting, purpose, and audience

#### *Mathematical Reasoning*

- a. Discover the validity or invalidity of mathematical arguments
- b. Employ appropriate strategies to model and find solutions to problems
- c. Interpret mathematical models and identify their limitations
- d. Use appropriate terminology to represent and communicate mathematical information

#### *Scientific Reasoning*

- a. Use generally accepted scientific means such as lab or field methods to collect data or conduct controlled experiments
- b. Use generally accepted scientific procedures and tools to analyze data
- c. Make inferences by synthesizing analytical results with fundamental concepts and theoretical perspectives or integrate existing knowledge based on scientific evidence

- d. Use appropriate terminology to clearly communicate solutions to problems

#### *Cultural Comprehension*

- a. Demonstrate an understanding of events, values, and ideas rooted in human experience.
- b. Critically analyze issues from a cultural, historical, artistic, or philosophical context
- c. Make informed judgments of works of art

#### *Social Awareness*

- a. Apply historical, ethical and scientific reasoning to social concerns
- b. Recognize social responsibilities, ethics, and individual rights of others in a global society
- c. Identify causes and variations of social diversity

To meet these aims of general education, some flexibility exists for each student to select courses. The requirements for each associate's degree determine specific choices in each category. General Education requirements for the Associate in Arts, Associate in Science, Associate in Engineering Science, Associate in Fine Arts, and Associate in Arts in Teaching degrees are in compliance with the Illinois Articulation Initiative standards.

## **CURRICULUM DISTRIBUTION CATEGORIES FOR GENERAL EDUCATION REQUIREMENTS**

### **Communication**

Communication includes studies in English and Speech. These disciplines provide an educational framework within which students may develop their abilities to think independently and to express themselves clearly, effectively and creatively. Instructors focus on the skills of communication and the contexts in which human expression occurs. Educational opportunities are provided that:

- develop, through practice, the student's abilities in observing, listening, reading, speaking and writing effectively.
- develop the student's skills in obtaining, interpreting and evaluating information and ideas.
- encourage the student's creative expression.
- enhance the student's awareness of and respect for personal, social and cultural diversity.
- allow for the student's exploration of various methods and technologies in communication.

### **Humanities and Fine Arts**

Humanities and Fine Arts include subject areas that address the meaning of being human. They provide the student with a basis for value judgment and a context for thoughtful action. The study of the humanities frees the student to think beyond personal and cultural limitations, to relate present experiences to human traditions and to consider and choose constructive action in the present and for the future.

Courses in Humanities and Fine Arts are designed to:

- develop the student's skills in study, analysis, synthesis and evaluation.
- provide the student the opportunity to develop original ideas and to create works of art.
- develop the student's understanding of history, philosophy, and the fine and performing arts.
- develop the student's awareness of the nature of being human, social issues and spiritual aspirations.
- develop the student's insight into various cultures through the study of the arts, literature, history and foreign languages.
- develop, through study and participation, the student's insight and abilities in the visual and performing arts.
- provide the framework for an understanding of cultural, political and intellectual heritage.

The subject areas include Foreign Languages (Chinese, French, German, Spanish, etc.), certain English and History courses, Humanities, Philosophy, Religious Studies, Art, Theater and Music.

### **Social and Behavioral Sciences**

Social and Behavioral Sciences courses provide students with a broad perspective on human behavior, our cultural heritage, our relationships with others, our social institutions, and the environment. The subject areas include Anthropology, Economics, Geography, History, Political Science, Psychology, Social Science and Sociology.

### **Physical and Life Sciences**

Physics, Chemistry and Earth Science deal with natural laws and theories and their application to human needs. Universal phenomena are studied and analyzed. The Life Sciences (Biology, Botany, Anatomy & Physiology, Microbiology, and Zoology) examine the components of the living world and their interactions with the physical and chemical world.

### **Mathematics**

Mathematics provides the tools and skills to organize our thoughts and apply problem-solving techniques. The study of mathematics helps students understand the quantitative relationships found in business, technology, and the physical, natural and social sciences.

### **Human Relations**

The Human Relations category has been designed in accordance with the requirements of Illinois Public Act 87-581 to include coursework on improving human relations with an emphasis on issues of race, ethnicity, gender and other concerns related to improving human relations. Courses also may focus on non-Western and American diversity.

### **Global/Multicultural Studies**

The College of DuPage faculty has made an educational commitment to international/intercultural studies. The purpose of this category is to enhance student capacity to:

- conceptualize and understand the complexity of an international system (economics, government, politics, etc.)
- understand world cultures and international events.
- appreciate the diversity as well as commonality of human values, beliefs and behaviors.
- understand and apply the principles of intercultural communication.
- broaden student perspective by exposure to a culture different from the student's own.

### **Contemporary Life Skills**

Courses in this category are intended to help students use creative expression, problem solving, interpersonal communication, health and body, computers/ technology, and personal development to function in a changing, technological and complex society.

### **General Education Categories**

For the Associate in Applied Science and Associate in General Studies degrees, general education and elective courses are organized under the following categories of general education.

Electives for the A.A.S. degree vary, depending on the program of study. Check with program adviser(s) for a list of electives.

Any course, 1000 level or higher, can be taken as an elective for the A.G.S. degree.

### **Communication**

English 1101, 1102, 1105  
Speech 1100, 1120, 1150

**Physical/Life Sciences\***

Anatomy and Physiology  
 Biology  
 Botany  
 Chemistry  
 Earth Science  
 Microbiology  
 Physics  
 Zoology

\*Course selection must include at least one course with a laboratory component.

**Mathematics**

Select mathematics course(s) consistent with specific and general degree requirements. Includes Psychology 2280 and Sociology 2205.

**Humanities/Fine Arts**

Art  
 Chinese  
 English (except 1101, 1102, 1105, 1110, 1115 and 2100)  
 French  
 German  
 History (except 1130, 1140, 2210, 2215 and 2260)  
 Humanities  
 Italian  
 Japanese  
 Korean  
 Music  
 Philosophy  
 Religious Studies  
 Russian  
 Spanish  
 Speech 1110, 2210  
 Theater

**Social and Behavioral Sciences**

Anthropology  
 Economics (except 1110)  
 Education 1100, 1101  
 Geography  
 History 1130, 1140, 2210, 2215, 2260  
 Political Science  
 Psychology (except 1140 and 2280)  
 Social Science  
 Sociology (except 2205 and 2290)

**Human Relations**

Anthropology 1100\*, 1101\*, 1105\*, 1130\* (T)  
 Art 1100\*  
 Education 1101, 1105, 1110 (T)  
 English 1160\*, 1161\*, 1165\* (T)  
 Geography 1130\* (T)  
 History 2242  
 Human Services 1113 (O)  
 Humanities 1110\* (T)  
 Management 2220 (T)  
 Office Technology Information 2600 (O)  
 Philosophy 1110\*, 1112, 1114, 1117\*, 1118\* (T)  
 Psychology 1150, 2235\*, 2240\* (T)  
 Sociology 1100\*, 1120, 2215\*, 2225, 2290 (T)  
 Speech 1120 (T)

(O) Occupational/Vocational credit

(T) General Elective credit

**Global/Multicultural Studies**

This list of courses is subject to change at the beginning of each Fall Semester. Check with the Counseling and Advising Center for an updated Student Planning Worksheet at [cod.edu/advising/studplan.htm](http://cod.edu/advising/studplan.htm)

Anthropology 1100\*, 1101\*, 1105\*, 1125\*, 1130\*  
 Art 1100\*, 2214\*  
 Business 2255  
 Chinese 1100, 1101, 1102, 2201, 2202\*  
 Economics 2220  
 English 1160\*, 1161\*, 2226\*, 2227\*, 2262  
 French 1100, 1101, 1102, 2201, 2202\*, 2251\*, 2252\*  
 Geography 1100\*, 1105\*, 1120\*, 2205, 2235  
 German 1100, 1101, 1102, 2200\*, 2201, 2202\*, 2251\*, 2252\*  
 History 2205\*, 2210\*, 2215\*, 2220\*, 2225\*, 2230\*, 2235\*, 2240, 2242  
 Human Services 1121 (O)  
 Humanities 1105\*  
 Interior Design 1153  
 Italian 1100, 1101, 1102, 2201, 2202\*, 2251\*, 2252\*  
 Japanese 1100, 1101, 1102, 2201, 2202\*, 2251\*, 2252\*  
 Korean 1101, 1102, 2201, 2202\*  
 Music 1104\*, 1115\*  
 Philosophy 1110\*, 1116\*, 1150\*  
 Political Science 2203\*, 2220\*, 2221  
 Religious Studies 1100\*, 1150\*, 1155\*, 2160\*  
 Russian 1101, 1102, 2201, 2202\*  
 Social Science 1110  
 Sociology 2210\*, 2220\*  
 Spanish 1100, 1101, 1102, 2201, 2202\*, 2251\*, 2252\*, 2820  
 Travel, Tourism and Event Planning 2221 (O)

\* Conforms to Illinois Articulation Initiative general education standards.

**Contemporary Life Skills**

This list of courses is subject to change at the beginning of each Fall Semester. Check with the Counseling and Advising Center for an updated Student Planning Worksheet at [cod.edu/advising/studplan.htm](http://cod.edu/advising/studplan.htm)

Accounting 1110 (O), 1140 (T)  
 Air Conditioning 1110 (O)  
 Architecture 1100 (O), 1105 (O) and 1121 (O)  
 Art 1101 (T), 1105 (T), 1140 (T), 1151 (T)  
 Automotive Service Technology 1040 (O), 1110 (O)  
 Business 1100 (T)  
 Computer and Internetworking Technology 1100 (O), 1121 (O)  
 Computer Information Systems 1110 (O), 1120 (O), 1130 (O), 1150 (T), 1400 (T)  
 Criminal Justice 1100 (T)  
 Early Childhood Education and Care 1110 (O)  
 Economics 1110 (T)  
 Education 1100 (T), 1105 (T), 1110 (T), 1115 (T)  
 Electro-Mechanical Technology 1101 (O), 1120 (O), 1130 (O), 1300 (O)  
 English 2251 (T), 2252 (T), 2253 (T), 2261 (T)  
 Foodservice Administration 1110 (O)  
 Graphic Arts Technology 1101 (O), 1102 (O)  
 Graphic Design 1102 (O)  
 Health Sciences 1110 (O), 1150 (O)  
 Human Services 1113 (O), 1115 (O)  
 Journalism and Mass Communication 1100 (T), 1110 (T)  
 Interior Design 1151 (O), 1153 (O)  
 Library Technology 1101 (O)  
 Manufacturing Technology 1171 (O), 1180 (O), 1190 (O), 2280 (O)  
 Mathematics 1100 (T), 1220 (T)  
 Motion Picture/Television 1011(O), 1020 (O), 1220 (O)  
 Office Technology Information 1100 (O), 1200 (O), 1210 (O)

Photography 1100 (O)  
 Physical Education 1101 to 1932, except 1800, 1820 and  
 1840 (T), 2244 (T), 2251 (T), 2254 (T)  
 Psychology 1140 (T), 1150 (T)  
 Sociology 2290 (T)  
 Speech Communication 1110 (T), 1120 (T), 2210 (T)  
 Theater 1105 (T), 1111 (T), 2230 (T)  
 Travel, Tourism and Event Planning 1121 (O), 1122 (O)  
 Any discipline's Coop/Internship courses

(O) Occupational/Vocational credit  
 (T) General Elective credit

## ELECTIVES

### Associate in Arts and Associate in Science Degrees

In addition to the courses specified as part of the General Education Core Curriculum, students may select electives from the following areas. Students can earn a maximum of 10 credits in occupational/vocational areas for elective credit. Students are strongly advised to consult with a faculty adviser and/or the transfer institution in selecting elective courses.

Accounting (except 1110)  
 Anatomy and Physiology  
 Anthropology  
 Art  
 Biology  
 Botany  
 Business  
 Business Law  
 Chemistry  
 Criminal Justice 1100, 1130, 1151, 1152, 2240, 2250\*  
 Computer Information Systems 1150, 1400\*  
 Earth Science  
 Economics  
 Education  
 Engineering  
 English  
 Foreign Language: Chinese, French, German, Italian,  
 Japanese, Korean, Russian, Spanish  
 Geography  
 History  
 Humanities  
 Journalism and Mass Communication  
 Management  
 Marketing  
 Mathematics  
 Microbiology  
 Music  
 Philosophy  
 Physical Education  
 Physics  
 Political Science  
 Psychology  
 Religious Studies  
 Social Science  
 Sociology  
 Speech Communication  
 Theater  
 Zoology

\*All other courses in this subject are assigned to the occupational/vocational category.

## ELIGIBILITY FOR AWARDING OF A SECOND DEGREE

A student meeting specific qualifications may earn two or more different degrees from College of DuPage. Credits earned for degrees already completed may apply toward subsequent degrees. However, a minimum of 10 additional credits must be earned at College of DuPage for each degree sought after the first degree is awarded.

## CERTIFICATE REQUIREMENTS

Each candidate for a certificate shall:

1. Satisfactorily complete all course requirements for the specific certificate.
2. Possess a minimum of 2.0 (C) average in the combined grade point average of all College of DuPage courses numbered 1000 and above on all courses.
3. Complete a minimum of one-half the applicable credits at College of DuPage.
4. Earn the final applicable credits at College of DuPage:
  - a. If the program requirement is 20 credits or more, earn the final 10 credits at College of DuPage.
  - b. If the program requirement is less than 20 credits, earn one-half the total required credits as the final applicable hours at College of DuPage.
5. File a petition for the certificate at least one semester before the anticipated completion date.
6. Satisfy all financial obligations and other specific requirements.
7. Be in good standing at the time final credit for the certificate is earned.

## REMINDERS

1. When students break enrollment for more than three consecutive semesters, including summer semester, they are then subject to the degree requirements as stated in the College of DuPage Catalog that is current at the time of re-entry, subject to changes.
2. Courses numbered below 1000 represent courses not usually found in the curriculum of a baccalaureate-granting institution and, therefore, may not transfer. They do not apply to any College of DuPage degree or certificate.
3. Students are responsible for proper registration each semester. The planning of courses relevant to future goals and degree requirements is the responsibility of the student.
4. Students should contact a faculty adviser for advice regarding degree requirements, transfer requirements and achievement of educational goals.
5. Students with special problems related to degree requirements may appeal to the Academic Regulations Committee. For more information, contact the Vice President for Student Affairs.
6. All students intending to transfer are encouraged to plan their programs according to the requirements of the transfer institution.
7. Degree and major requirements at baccalaureate-granting institutions may require more than two academic years of study after completion of an associate's degree at College of DuPage.
8. Some College of DuPage courses have been designed for two-year curricula. Although they are considered college level, they may not meet the objectives of a bachelor's degree program and, therefore, may not be transferable.

## CAREER CLUSTERS AT COLLEGE OF DUPAGE

College of DuPage participates in the national initiative of Career Clusters, intended to help states and educational institutions organize their programs and career exploration activities around theme/skill/knowledge-based continuity concerns. This allows students to explore like-kind occupational/vocational and career possibilities with a focus on opportunities. The 16-Cluster format used by the U.S. Department of Education encompasses all 970-plus occupations.

Using the Career Clusters, COD offers direction to students who may not yet know what they want to do but have an idea of their academic strengths and interests. It allows students, prospective and current, along with the community at-large to see the similarity between different fields. It also focuses on promoting the seamless transition of coursework between areas of studies and progression from high school to COD and through COD to a college or university.

### **Agriculture, Food and Natural Resources**

Horticulture

Sustainable Landscapes Certificate

Hospitality Management

Pre-Veterinary

### **Architecture and Construction**

Architecture

Construction Management

Heating, Air Conditioning and Refrigeration

### **Arts, Audio/Video Technology and Communication**

Art

Fashion Merchandising and Design

Graphic Arts Technology

Graphic Design

Interior Design

Sustainable Interiors Certificate

Motion Picture/Television

Music

Photography

Theater

English

Journalism and Mass Communication

Technical Communication

Speech Communication

### **Business Management and Administration**

Business

Facility Management

Management

Office Technology Information

Administrative Assistant/Event Planner

### **Education and Training**

Humanities

Library and Information Technology

Physical Education

Fitness Instructor

Teacher Preparation

Mathematics

Teaching-Secondary Mathematics

Early Childhood Education and Care

Assistant Teacher (ECEC)

### **Finance**

Accounting

### **Government and Public Administration**

Political Science

### **Health Science**

Health Sciences

Certified Nursing Assistant (CNA)

Medical Assistant

Non-Invasive EKG

Pharmacy Technician

Phlebotomy/EKG

Health Information Technology

Physician Office Coding and Billing

Long-Term Care Administration

Practical Nursing (PN)

Nursing

(ADN)

(Pre-BSN)

Physical Therapist Assistant

Pre-Physical Therapy

Diagnostic Medical Imaging Nuclear Medicine

Diagnostic Medical Imaging Sonography

Vascular Sonography

Diagnostic Medical Imaging Radiography

Mammography

Respiratory Care

Surgical Technology

Speech-Language Pathology Assistant

Pre-Medicine

Pre-Pharmacy

Dental Hygiene

Pre-Dentistry

### **Hospitality and Tourism**

Culinary Arts

Hospitality Management

Travel, Tourism and Event Planning

### **Human Services**

Cosmetology

Early Childhood Education and Care

ECEC Assistant

Human Services

Psychology

Religious Studies

Social Sciences

Sociology

### **Information Technology**

Computer Information Systems

Computer and Internetworking Technologies

### **Law, Public Safety, Corrections and Services**

Criminal Justice

Homeland Security

Fire Science

Emergency Medical Technician

Paramedic

Paralegal Studies

### **Manufacturing**

Manufacturing Technology

Manufacturing Skills Standards Certificate

Integrated Engineering Technology

Welding

### **Marketing, Sales and Service**

Fashion Merchandising and Design

Marketing

Real Estate

**Science, Technology, Engineering and Mathematics**

Electro-Mechanical Technology  
 Advanced Multi-Skilled Technician Certificate  
 Electronics Technology  
 Renewable Energy Certificate  
 Electricity and Electronics Technology Certificate  
 Digital Logic Device Programming Certificate  
 Integrated Engineering Technology  
 Engineering  
 Mathematics  
 Biotechnology  
 Anthropology  
 Biology  
 Botany (Biology)  
 Chemistry  
 Clinical Laboratory Science  
 Earth Science  
 Physics  
 Zoology (Biology)  
 History  
 Languages  
 Philosophy  
 Geography  
 Economics

**Transportation, Distribution and Logistics**

Automotive Service Technology

**ASSESSMENT OF STUDENT LEARNING IN DISCIPLINES/PROGRAMS**

The wide variety of disciplines and career and technical education programs administer meaningful, action-oriented assessments of their curricular effectiveness through Academic Program Review. The crux of COD's Academic Program Review process is a discipline-wide student outcomes assessment project developed by each discipline/program. The type of assessment varies from one discipline/program to another and is reflective of its needs. For example, disciplines/programs with capstone courses may use a portfolio as their project; whereas, those with large-enrollment introductory courses may use a multiple-choice exam that is given to all sections. Additionally, program accreditation bodies may have competency-based instruments that are used by the College to assess student learning. The assessment results are evaluated and used by the discipline/program to develop plans for improvement in student learning.

**PLACEMENT TESTING FOR MATH, READING AND WRITING**

Tests in the area of reading, writing, math, writing essay and English as a Second Language are given to students to determine the appropriate course placement and satisfy course prerequisites. Scores from COMPASS placement tests are used to prepare a course of study that will be relevant and meaningful for students as they work toward successful completion of their educational goals. For more information about placement testing, go to [www.cod.edu/testing](http://www.cod.edu/testing).

**Reading Placement Testing**

The Reading Placement Test assesses a student's readiness for the demands of college-level reading. Upon completion of the test, students will receive a score that places them in one of five categories. These categories are used as prerequisites for most college-level courses at College of DuPage. Students do not need to take this test to qualify as "Reading Category 1" (college-ready) if they meet ONE of the following conditions:

- College-level credit totaling 12 semester hours with at least a "C" average.

- ACT composite score of 20. (Proof of score must be provided.)
- SAT verbal/critical score of 500. (Proof of score must be provided.)
- A score of 550 paper/pencil, 213 computer-based, or 79 Internet-based on the Test of English as a Foreign Language (TOEFL). (Proof of score must be provided.)

**Writing Placement Testing**

The Writing Placement Test assesses a student's readiness for college-level writing. To place into English 1101 or 1105, students must fulfill ONE of the following two options:

*Option 1*

ACT Composite Score of 20 or higher

*Option 2*

1. Reading Category 1 (college ready)  
AND
2. Compass Writing Category 1  
OR  
Compass e-Write Category 1

**Mathematics Placement Testing**

Students who intend to enroll in Mathematics 0481, 0482, 1100, 1102, 1115, 1218, 1220, 1428, 1431, 1432, 2134 or 2231 as their first math course at College of DuPage are required to take a Math Placement Test before enrolling. This test is one component of placement in an appropriate math course. Verification of successful completion of any prerequisite courses is the second component. (Prerequisites are listed by individual course in the mathematics section of the college *Catalog*.) For further math advising, contact the Math and Physical Sciences subdivision (630) 942-2010, the Math Assistance Center, (630) 942-3339, or the Centers for Independent Learning – Math area, (630) 942-3354.

**COLLEGE ARTICULATION AND TRANSFER OPPORTUNITIES**

The Office of Academic Partnerships (Transfer/Articulation Unit) works with the Academic Divisions to develop Articulation Agreements and transfer guides to benefit College of DuPage students interested in transferring to colleges and universities to complete the requirements for a bachelor's degree. The number of courses and credits transferable to receiving colleges and universities varies by academic discipline/program of study and institution. The College has Articulation Agreements with public and private colleges and universities in Illinois and other states. A 2+2 Articulation Agreement provides an opportunity for students to complete their first two years of study at COD before transferring as juniors to another college or university. A 3+1 Articulation Agreement allows students to complete the first three years of study at COD before transferring as seniors to institutions that award the bachelor's degree. Formal transfer guides identify courses by their official name and number and the specific college credit hours earned for transferring from COD to other institutions.

The transferability of COD courses is determined by the receiving college or university. Generally, COD courses numbered 1100 and above are accepted by other institutions when these courses are part of, or applicable to, a degree at that institution. College of DuPage is also a participant in the Illinois Articulation Initiative (IAI), a statewide agreement that allows the transfer between participating colleges and universities of selected general education courses and lower-division major courses. For more information on IAI, check their website at [www.itransfer.org](http://www.itransfer.org).

Students may pursue transfer opportunities on their own with bachelor's degree-granting institutions; however, following a formal transfer guide will provide a more efficient and effective transfer of credits earned at COD. Students planning to transfer their COD credits should:

1. Begin early to explore possible transfer institutions that meet their educational goals for a specific program of study.
2. Contact the transfer institution for detailed information regarding specific degree requirements, transfer student policies and procedures, and opportunities for special scholarships available for transfer students.
3. Confer with a COD faculty advisor or counselor concerning transfer plans.

For more information on Articulation Agreements, transfer guides, and special partnerships with bachelor's degree-granting institutions, check the College of DuPage transfer information website at <http://home.cod.edu/academics/transferinfo> or contact COD's Transfer Coordinator at (630) 942-2776.

## COOPERATIVE EDUCATION, INTERNSHIPS, AND SERVICE LEARNING

### Cooperative Education and Internship Program

The Cooperative Education and Internship program prepares students to pursue and succeed at internships and co-ops. Students obtaining work-integrated learning positions, who meet college prerequisites, may enroll for academic credit. Students in academic co-ops and internships are mentored by a COD faculty advisor and worksite supervisor, which creates an ideal learning partnership leading to career and workforce development. Benefits of the Cooperative Education and Internship Program include:

- An opportunity to develop job search and success skills.
- Relevant on-the-job experience that puts classroom knowledge into practice.
- The possibility of earning academic credit and a paycheck while increasing career competencies and building a professional network.

For more information about Cooperative Education and Internships, call (630) 942-2611.

### Service Learning

Service Learning is a teaching and learning methodology that integrates community service with academic instruction, connecting theory to practice. It focuses on critical and reflective thinking, develops civic and social responsibility, and connects students with their communities.

Service Learning staff assists students with placement, provides technical support, offers appropriate training, and serves as the bridge to the community.

- Students become enthusiastic learners.
- Students connect theory to practice in the real world.
- Establishes partnerships between the College and the community.
- Service Learning fosters personal growth, career development, academic achievement and encourages respect for diversity.

For more information about Service Learning, call (630) 942-2230.

## HIGH SCHOOL PARTNERSHIPS – DUAL CREDIT, DUAL ENROLLMENT AND HIGH SCHOOL ARTICULATION

Dual Credit is a formal agreement with a high school where an academically qualified high school student enrolls in a college-level course and, upon successful course completion, concurrently earns both college credit and high school credit. Dual Enrollment allows high school students to enroll in college-level courses while still in high school. The student only receives college credit.

High School Articulation is a formal agreement with the high school for specific courses. Articulation allows a high school graduate to receive college credit for articulated high school courses. Dual Credit and Dual Enrollment course offerings and the articulation of high school courses are coordinated by the Office of High School Partnerships. For more information, check the College of DuPage High School Partnerships website <http://cod.edu/academics/specialprograms/ohsp/dualcredit> or contact the Office of High School Partnerships at (630) 942-2880.

## COOPERATIVE AGREEMENTS FOR INSTRUCTIONAL PROGRAMS

The following selected programs are available at in-district rates at other community colleges. Prior to registration at the cooperating colleges, students should complete approval forms from the College of DuPage Admissions Office.

Elgin Community College  
 Clinical Lab Technology  
 Dental Assisting  
 Histotechnology  
 Truck Driving

William Rainey Harper College  
 Banking, Finance and Credit  
 Building Codes and Enforcement  
 Cardiac Technology  
 Commercial Credit Management/Insurance  
 Dietetic Technician  
 Financial Management  
 Human Resource Management  
 Interpretation/Translation  
 NetPrep Network Specialist  
 Supply Chain Management

Joliet Junior College  
 Agricultural Production and Management  
 Agricultural Supply-Business

Kishwaukee College  
 Collision Repair  
 Diesel Power Technology  
 Equine Science  
 Power Equipment Repair/Advanced Power Equipment Repair  
 Power Equipment Technology

Moraine Valley Community College  
 Aircraft Inspection  
 Recreation Therapy/Management

Oakton Community College  
 Financial Services  
 International Trade

Waubensee Community College  
 Auto Body Painting and Repairing

## Learning for Life

Continuing Education/Extended Learning serves a diverse cross section of District 502 residents through the Youth Academy, Adult Enrichment and Business Solutions (Career and Professional Development) units. Continuing Education/Extended Learning starts at 15 months of age in the state-of-the-art, fully functioning daycare/kindergarten and journeys with its learning partners through older adulthood. Continuing Education seeks to connect the College to the larger community, leveraging human and capital resources in support of innovative teaching/learning, to enhance academic and career pathways, while positively contributing to regional economic development and the overall quality of life through dynamic programs and services.

