



Dual Enrollment Guide 2016-2017



For Parents & Students

REASONS TO CONSIDER DUAL ENROLLMENT COLLEGE COURSES

Broadened academic rigor within our high schools is a predominant feature of the Allentown School District's Framework for Academic Achievement and Pathways To Success - Instructional Vision. College and Career Readiness is a major component of this vision. Offering students the Collegiate Program Experience through Dual Enrollment and Advanced Placement courses will prepare them for additional higher education after graduation from high school. Specifically, the Dual Enrollment program is focused on providing a collegiate experience for high achieving and motivated students. The Dual Enrollment courses are made available by Lehigh Carbon Community College (LCCC) and paid for by the ASD. Students participating in this type of coursework will have an excellent head start on college readiness and could potentially earn up to a General Studies Associate's Degree (60-61 credits) through LCCC by the end of their high school experience. Success in the Collegiate Program Experience will prepare students for college and potentially reduce post-secondary tuition costs.

The benefits for students successfully completing Dual Enrollment courses include:

- High school students are able to experience the dynamics of a college classroom before actually entering college.
- College credit is earned at the same time as high school credit.
- Dual Enrollment courses receive a .2 weighting with a grade of "C" or higher upon course completion.
- Students are able to receive college credit while in high school at no cost, saving students and their parents' significant tuition costs towards college.
- Students easily transition from high school to college with a working knowledge of what to expect.
- The Dual Enrollment course experience helps students narrow down their career interests by giving them the chance to explore a variety of fields at the college level.
- Successful completion of Dual Enrollment courses can shorten the time to college degree completion.
- Possible attainment of an Associate's Degree (60-61 college credits) from LCCC.

Dual Enrollment courses that students take while enrolled in the Allentown School District can be applied to a degree program at any community college or state university in Pennsylvania. Guidelines that determine how these courses fit within various majors have been established by the State. Pennsylvania has created a seamless statewide transfer system, which requires Pennsylvania's 14 community colleges and the 14 universities in the Pennsylvania State System of Higher Education (PASSHE) to adopt mandatory equivalency standards for creating at least 30 hours of foundation courses that can be easily transferred to any of the participating institutions. For further information on the transfer of dual enrollment credits and to maximize credit transfer to a college other than LCCC please use www.pacollege-transfer.com (PA TRAC) developed by the Pennsylvania Department of Education (PDE). In addition to PA TRAC, you may find these PDE websites helpful:

- College Planning Resource Page - This page offers information on finding a college, selecting a major, paying for college and college credit transfers.
http://www.portal.state.pa.us/portal/serer.pt/community/higher_education/8711/college_planning/811446
- Pennsylvania Directory of Institutions of Postsecondary and Higher Education - Listing of Postsecondary and Higher Education Institutions within Pennsylvania.
http://www.portal.state.pa.us/portal/server.pt/community/higher_education/8711/pennsylvania_institutions_of_postsecondary_and_higher_education_map/522455

Dual Enrollment courses allow students to experience college courses and determine whether they are ready for such challenging academic work without the cost of tuition. In addition, Dual Enrollment courses save tuition costs to families because many four-year colleges accept Dual Enrollment as part of the student's college roster. Not all colleges accept this credit, but even so, this is a wonderful opportunity for our students to expand academic possibilities and to achieve their goal to attend college. While there are many benefits to taking dual enrollment courses, it is important to remember that grades earned in those courses will become a permanent part of a student's transcript. Students should be aware that if they transfer their dual enrollment courses to another college or university, their entire LCCC transcript will be visible to those colleges and universities.

DUAL ENROLLMENT COURSE INFORMATION

The Dual Enrollment (DE) courses have been carefully and purposefully selected to meet the needs of our advanced offerings in grades 11 & 12 *and* to insure that a student can earn a LCCC General Studies Associates Degree upon the successful completion of their grade 12 year. The *ASD/LCCC Dual Enrollment Sample Schedule* is used by school counselors to determine which and when DE courses are offered. If students were to select each of the DE courses indicated on the *ASD/LCCC Dual Enrollment Sample Schedule* during the semesters indicated, they would meet the requirements for the LCCC General Studies Associate's Degree.

In some cases, there are prerequisites to enrollment in a DE course. Prerequisites may include a pre-test called the COMPASS test, a course specific test such as the Biology Placement Test, a Critical Reading score of 490 or higher on the SAT or PSAT, PSSA Writing score of 1806 or higher and Reading score of 1492 or higher, and prerequisite courses such as Algebra I and II. On the chart below, the specific prerequisites are listed for each DE course. In addition, the numbers preceding the course name are for ASD scheduling purposes only and help in scheduling these and other courses.

<u>THESE DE COURSES REQUIRE PREREQUISITES:</u>	
<u>COURSE</u>	<u>PREREQUISITE</u>
1. 120 DE College English I	1. COMPASS Writing Score of 66 or exemptions SAT or PSAT – Critical Reading 490; PSSA Writing 1806; PSSA Reading 1492
2. 130 DE College English II	2. DE College English I
3. 140 DE British Literature	3. DE College English I and College English II
4. 175 DE Speech	4. COMPASS Writing 66
5. 220 DE US History Since Reconstruction	5. COMPASS Reading (79) and Writing (66) or PSAT, SAT (Critical Reading 490)
6. 284 DE Human Growth & Development	6. DE Introduction To Psychology
7. 283 DE Introduction to Sociology	7. COMPASS Reading Test, minimum score 79
8. 286 DE Modern Social Problems	8. Compass Reading (79) or PSAT, SAT (Critical Reading 490)
9. 350 DE Pre-Calculus	9. COMPASS Algebra 71 and high school math through Trigonometry
10. 360 DE Calculus & Analytical Geometry	10. COMPASS Algebra 71 and high school math through Trigonometry
11. 390 DE Probability & Statistics	11. COMPASS Algebra 66 and two years of high school Algebra
12. 420 DE Physics	12. COMPASS Algebra score of 49
13. 470 DE Anatomy & Physiology	13. Biology Placement Test COMPASS (reading, writing, math)
14. 524 DE Spanish	14. Requires two years of high school language
15. 514 DE German	15. Requires two years of high school language
<u>THESE DE COURSES DO NOT REQUIRE PREREQUISITES:</u>	
<u>COURSE</u>	
1. 177 DE Interpersonal Communications	
2. 235 DE State & Local Government	
3. 282 DE Introduction to Psychology	
4. 504 DE French	
5. 601 DE Introduction to Computer Applications	
6. 711 DE Introduction to Art	
7. 913 DE Physical Education	

ASD/LCCC DUAL ENROLLMENT SCHEDULE

Fall Semester

Year/Semester 1	Course 1	Course 2	Course 3	Course 4	Course 5
Grade 11 Junior Year	120 DE English I	601 DE Intro to Computer Applications	350 DE Pre Calculus	282 DE Intro Psychology	220 DE U.S. History Since Reconstruction
Grade 12 Senior Year	130 DE English II	470 DE Anatomy & Physiology	175 DE Speech	390 DE Probability & Statistics	283 DE Introduction to Sociology

Spring Semester

Year/Semester 2	Course 1	Course 2	Course 3	Course 4	Course 5
Grade 11 Junior Year	913 DE Physical Education	420 DE Physics	*DE World Language	177 DE Interpersonal Communications	711 DE Introduction to Art
Grade 12 Senior Year	360 DE Calculus	140 DE British Literature	235 DE State and Local Government	284 DE Human Growth & Development	286 DE Modern Social Problems

NOTE- the course sequence above indicates those courses needed for LCCC's General Studies Associate's degree. This degree requires 60-61 total credits. For more information, please see LCCC's General Studies A.A. website at <http://www.lccc.edu/academics/school-humanities-and-social-sciences/general-studies-aa>.

* **World language options-** students need only one semester of a world language to complete the LCCC General Studies Associate's degree. However, students may opt to take additional levels of a world language during summer sessions.

DUAL ENROLLMENT COURSES & COURSE DESCRIPTIONS

This section indicates the DE courses for students in grades 11 and 12 offered by the ASD through LCCC. These courses are the same courses listed in the 2016-2017 ASD Program of Studies. Students can take one or more DE course. Students can take any combination of ASD courses, for example, DE, Advanced Placement, or regular high school courses. However, if a student is interested in attaining an LCCC General Studies Associates Degree, then they must take the courses as indicated in the *ASD/LCCC Dual Enrollment Sample Schedule*. Regardless of the number of DE courses a student takes, they will receive both high school and college credit and the ASD will pay the tuition.

READING THE DE COURSE DESCRIPTIONS

The DE course as listed in the 2016-2017 ASD Program of Studies

120 DE COLLEGE ENGLISH I – DUAL ENROLLMENT *Prerequisite: COMPASS Writing Score of 66 or exemptions - SAT or PSAT – Critical Reading 490; PSSA Writing 1806; PSSA Reading 1492*
 3.0 College Credit 1 Semester 1.0 Credit, ASD Grade 11, 12

In College English I (ENG 105), students write essays, develop a research paper, and master library skills. Students strive for sound logic, effective use of details, appropriate diction, and correct grammar and mechanics. Students study models of good writing, which include student essays as well as professionally written essays.

How to 'Read' the DE course as listed in the 2016-2017 ASD Program of Studies

Indicates course code (for high school use only), DE designation Indicates LCCC prerequisite required before taking the course

120 DE COLLEGE ENGLISH I – DUAL ENROLLMENT *Prerequisite: COMPASS Writing Score of 66 or exemptions - SAT or PSAT – Critical Reading 490; PSSA Writing 1806; PSSA Reading 1492*

3.0 College Credit	1 Semester	1.0 Credit, ASD	Grade 11, 12
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College credits earned Length of course ASD credits earned Grade(s) course is appropriate for

In College English I (ENG 105), students write essays, develop a research paper, and master library skills. Students strive for sound logic, effective use of details, appropriate diction, and correct grammar and mechanics. Students study models of good writing, which include student essays as well as professionally written essays.

Short description of the course Course name and number as it appears in the LCCC Course Catalog and on your LCCC Transcript

DUAL ENROLLMENT COURSES

120 DE COLLEGE ENGLISH I – DUAL ENROLLMENT *Prerequisite: COMPASS Writing Score of 66 or exemptions - SAT or PSAT – Critical Reading 490; PSSA Writing 1806; PSSA Reading 1492*

3.0 College Credit	1 Semester	1.0 Credit, ASD	Grades 11, 12
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In College English I (ENG 105), students write essays, develop a research paper, and master library skills. Students strive for sound logic, effective use of details, appropriate diction, and correct grammar and mechanics. Students study models of good writing, which include student essays as well as professionally written essays.

130 DE COLLEGE ENGLISH II- DUAL ENROLLMENT *Prerequisite: 120 DE College English I*

3.0 College Credit	1 Semester	1.0 Credit, ASD	Grades 11, 12
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College English II (ENG 106) is a writing course in which students write analytical essays about literature (short fiction, drama, novels, and poetry). Students strive for good logic, effective use of details, correct grammar and mechanics, and appropriate vocabulary and diction.

140 DE BRITISH LITERATURE- DUAL ENROLLMENT *Prerequisite: 120 DE College English I and 130 DE College English II*

3.0 College Credit	1 Semester	1.0 Credit, ASD	Grade 12
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Analyzes works of significant literary and intellectual movements from Anglo-Saxon times to neoclassicism to cultivate an appreciation of British literature and to develop thinking, reading, and writing skills.

175 DE SPEECH- DUAL ENROLLMENT *Prerequisite: COMPASS Writing Test, minimum score of 66*

3.0 College Credit	1 Semester	1.0 Credit, ASD	Grades 11, 12
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A public speaking course designed to develop self-confidence through several types of speaking situations: formal, informal, and impromptu. Students learn how to analyze an audience and how to prepare an effective presentation

through research and use of visual aids. In addition, students learn to develop listening skills and a greater command of the English language. Constructive evaluation and videotaping of student speeches lead to self-improvement. NOTE: It is recommended that ESL students complete ESL 252 or obtain permission from an ESL instructor before enrolling in this course.

177 DE INTERPERSONAL COMMUNICATIONS- DUAL ENROLLMENT *Prerequisite: NA*
3.0 College Credit 1 Semester 1.0 Credit, ASD Grades 11, 12

Designed to provide a fuller understanding of self and others through the study and practice of interpersonal communication skills. Topics will include verbal and nonverbal messages, perception, listening, intercultural communication, and conflict resolution skills.

220 DE US HISTORY SINCE RECONSTRUCTION - DUAL ENROLLMENT *Prerequisite: COMPASS Reading (79) and Writing (66) or PSAT, SAT (Critical Reading 490)*
3.0 College Credit 1 Semester 1.0 Credit, ASD Grades 11, 12

The economic, political, and social development of the United States since the Reconstruction Era to the present is the core of the course. Topics considered include developments in agriculture, industry, culture, organized labor, and urbanization. Analysis is made of the changing role of government, reform efforts, America's rise to a world power, and role in the world since 1945.

235 DE STATE AND LOCAL GOVERNMENT - DUAL ENROLLMENT *Prerequisite: NA*
3.0 College Credit 1 Semester 1.0 Credit, ASD Grades 11, 12

A study of the organization and functions of state and local governments (as exemplified in Pennsylvania) and their place in our federal system. Topics studied include state, county, township, borough and city government; metropolitan cooperative/consolidation efforts; special purpose districts; and the contributions that active citizens can make in their state and communities.

282 DE INTRODUCTION TO PSYCHOLOGY- DUAL ENROLLMENT *Prerequisite: NA*
3.0 College Credit 1 Semester 1.0 Credit, ASD Grades 11, 12

This introductory course will provide students with an overview of the current body of knowledge and methods of the science of psychology. With an emphasis on empirical examination, the course focuses on the historical and contemporary foundations of psychology, cognition, emotions, learning, memory, consciousness, human development, biological bases of behavior, personality, psychological disorders, therapy and social behavior. Emphasis will be placed on the application of psychology to diverse human endeavors and on the students' ability to recognize and cope with uncertainty and ambiguity in human behavior.

283 DE INTRODUCTION TO SOCIOLOGY- DUAL ENROLLMENT *Prerequisite: COMPASS Test, minimum score 79*
3.0 College Credit 1 Semester 1.0 Credit, ASD Grades 11, 12

Sociology studies how we define our social world, create and learn rules for interacting with one another, establish and maintain institutions such as the family, school, and church, divide and distribute work and wealth among ourselves, struggle for power and prestige, and adjust to new ideas and technologies. This course introduces students to the conceptual tools needed to explore these issues and to develop a critical understanding of the social world.

284 DE HUMAN GROWTH AND DEVELOPMENT- DUAL ENROLLMENT *Prerequisite: 282 DE Introduction to Psychology*
3.0 College Credit 1 Semester 1.0 Credit, ASD Grade 12

Overview of development throughout the entire life cycle. Developmental themes that emerge in and across different stages of life, including physical cognitive, social and emotional factors are surveyed. The role of heredity, culture, personal experience and the environment are discussed.

286 DE MODERN SOCIAL PROBLEMS- DUAL ENROLLMENT *Prerequisite: Compass Reading (79) or PSAT, SAT (Critical Reading 490)*

3.0 College Credit 1 Semester 1.0 Credit, ASD Grade 12

This course offers a sociological approach to the study of social problems. Student will examine how a problem comes to public attention, how it is defined, how data are used or misused in the presentation of a problem, and how political ideology affects what solutions are offered for a problem. Course materials will give special attention to the role of the media in highlighting certain problems and in shaping an audience's perspective on those problems. Students will investigate the social-structural conditions that produce particular problems and explore the ways in which a variety of problems are connected to one another. They will look at the political and economic interests that are tied to those social structures and consider how those interests affect policy. Throughout the course, students will evaluate "solutions" put forward by various advocates and agencies and identify ways in which individuals can become involved in shaping policy debates and/or taking political action. The particular problems addressed will vary, but may include: poverty, heterosexism, violence, substance use/abuse, access to health care, educational disparities, environmental pollution, war and genocide, and/or the exploitation of labor.

350 DE PRE-CALCULUS DUAL ENROLLMENT *Prerequisite: COMPASS Algebra 71 and high school math through Trigonometry*

3.0 College Credit 1 Semester 1.0 Credit, ASD Grades 11, 12

Designed for students whose backgrounds are not sufficient to immediately begin the calculus sequence. Serves any student looking for a mature investigation of algebra and trigonometry. This one-semester course covers the topics included in MAT 160 and MAT 165 at a relatively rapid pace. Topics include: polynomials, systems of equations, sequences and series, trigonometric functions and graphs, inverse functions, exponential and logarithmic functions, identities and equations, parametric equations, and polar curves. A graphing calculator is required.

360 DE CALCULUS & ANALYTICAL GEOMETRY- DUAL ENROLLMENT *Prerequisite: COMPASS Algebra 71 and high school math through Trigonometry*

3.0 College Credit 1 Semester 1.0 Credit, ASD Grade 12

Primarily intended for students majoring in science, mathematics, or engineering. Topics include data analysis, limits, differentiation with applications (optimization and related rates), and integration. A graphing calculator is required.

390 DE PROBABILITY AND STATISTICS- DUAL ENROLLMENT *Prerequisite: COMPASS Algebra 66 and two years of high school Algebra*

3.0 College Credit 1 Semester 1.0 Credit, ASD Grades 11, 12

For students in programs where measurements and predictions are made. Topics include the following: tabulation of data, measures of central tendency and dispersion, sampling, types of distributions, probability, hypothesis testing and elementary aspects of correlation. A graphing calculator is required.

420 DE PHYSICS (ELEMENTS 110)- DUAL ENROLLMENT *Prerequisite: COMPASS Algebra test, minimum score of 49*

4.0 College Credit 1 Semester 1.0 Credit, ASD Grades 11, 12

Primarily for technical students requiring one semester of physics and for students to meet a general science requirement, this course provides the student with basic concepts of physics. Areas of study include mechanics, properties of matter, heat, waves, and electricity and magnetism. Technical applications are cited. Computers are frequently used in lab for data acquisition and analysis.

470 DE ANATOMY & PHYSIOLOGY- DUAL ENROLLMENT *Prerequisite: Biology Placement Test*

4.0 College Credit 1 Semester 1.0 Credit, ASD Grades 11, 12

Provides students, primarily in health-related programs, with an in-depth understanding of the anatomy and physiology of complex living organisms, including humans. Biological principles, as well as the structural and functional relationships among several organ systems, are discussed. (Considerable dissection is required.)

514 DE GERMAN- DUAL ENROLLMENT *Prerequisite: requires two years of high school language*
3.0 College Credit 1 Semester 1.0 Credit, ASD Grades 11, 12

A continuation of College German I, the course will emphasize speaking, reading, writing, and comprehension of the language. Focus will be on grammar, usage, vocabulary, comprehension, and pronunciation.

524 DE SPANISH- DUAL ENROLLMENT *Prerequisite: requires two years of high school language*
3.0 College Credit 1 Semester 1.0 Credit, ASD Grades 11, 12

The course is the first semester of the second year of two years of Spanish studies and therefore, a continuation of study of grammar and vocabulary of the Spanish language. The course also includes the study of Spanish-speaking cultures and emphasis on speaking, listening, reading, and writing skills.

534 DE FRENCH- DUAL ENROLLMENT *Prerequisite: NA*
3.0 College Credit 1 Semester 1.0 Credit, ASD Grades 11, 12

This course is offered to beginners and to some non-beginners who have had perhaps one year of French in high school, but who feel that their preparation is inadequate for an intermediate course at the college level. The basic communication skills are systematically developed: listening and speaking skills are emphasized in the classroom and expanded with participation in a language tape program. Reading and writing skills are progressively developed through various creative exercises, activities, and assignments. Cultural readings and materials are adapted to provide the student with the opportunity to practice communication skills, while at the same time discovering aspects of both daily life and traditional culture of Francophones all over the world and within the United States.

601 DE INTRODUCTION TO COMPUTER APPLICATIONS- DUAL ENROLLMENT *Prerequisite: NA*
3.0 College Credit 1 Semester 1.0 Credit, ASD Grades 11, 12

Intended for students with little or no previous computer experience. The topics presented in this course include a survey of computer hardware, application and system software, data communications and networks, the societal impacts of computerization, and ethics in the context of digital information. Students will have hands-on experience with popular spreadsheet, word processing, database, presentation, and web design software packages in a networked environment. Students will also consider the criteria used to evaluate computer equipment for personal as well as organizational purchase.

711 DE INTRODUCTION TO ART- DUAL ENROLLMENT *Prerequisite: NA*
3.0 College Credit 1 Semester 1.0 Credit, ASD Grade 12

ART 101 surveys painting, sculpture, architecture and other related art forms of Western culture with the consideration of the aesthetic, historical, and technical significance of major artistic achievements.

913 DE PHYSICAL EDUCATION- DUAL ENROLLMENT *Prerequisite: NA*
1.0 College Credit 1 Semester 1.0 Credit, ASD Grades 9-12

Physical education courses are oriented toward lifetime and are elective in nature. Course offerings are dependent upon student interest/enrollment. Based on student enrollment, courses offered may include: Introduction to Yoga, Weight Training and Fitness, Tennis and/or Conditioning and Aerobics I. These courses may not be repeated for credit.

DUAL ENROLLMENT DECISIONS AND ASSISTANCE

Decisions regarding DE course selection and enrollment can be confusing. After reviewing this guide, feel free to contact your child's high school guidance counselor for additional information and assistance in selecting an academic path. Our high schools can provide pre-DE assistance to any student wishing to take DE course requiring a COMPASS exam as a prerequisite.

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