



Collin County Community College District and
Frisco Independent School District

Partnership Agreement for 2021-2022

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Collin County Community College District and Frisco Independent School District Partnership Agreement for 2021-2022



Collin County Community College District (Collin College or the “College”) and the Frisco Independent School District (Frisco ISD) hereby enter into the following Partnership Agreement (“Agreement”) to provide opportunities for high school students to concurrently enroll in college courses and programs. This Agreement is written in accordance with Title 19, Part 1, Chapter 9, Subchapter H of the Texas Administration Code pertaining to partnerships between secondary schools and public two-year colleges.

Collin County Community College District and the Frisco Independent School District agree to enter into a partnership to award dual course credit. Concurrent enrollment allows students to be enrolled in high school and college at the same time. Dual credit courses are available to concurrently enrolled students and award both high school and college credit for the same class. Unless noted, this Agreement applies to concurrent enrollment for dual credit only.

STUDENT ELIGIBILITY

Prior to enrolling in college classes, students must satisfy Texas Success Initiative (TSI) requirements. The TSI assessment is a test in reading, writing, and mathematics that is required of all students taking college-level courses at a public college in Texas. Students must also satisfy all college local assessment requirements.

High school students may be exempt from state-mandated testing if they meet the qualifying standards listed in the current Collin College Catalog. Exemptions may be extended for the SAT or ACT. Dual credit students may be able to use temporary waivers (TSI waived for one year) with appropriate scores in PSAT, Aspire, STAAR English II or Algebra I.

Students may also be exempt if they are enrolling in workforce education courses contained in a Level I certificate or a program leading to a credential of less than a Level I certificate.

Students must have permission from Frisco ISD to enroll. The College must be notified if students are receiving dual credit or if students are early admissions only.

Official high school transcripts are not required to participate in the Collin College Dual Credit Program. However, one may be required to demonstrate college readiness and to confirm academic information such as test scores, grade classification, vaccination, and other pertinent information.

FACULTY SELECTION, SUPERVISION, AND EVALUATION

All instructors will meet the minimum requirements to teach as specified by the SACSCOC.

The College shall select, supervise, and evaluate instructors for courses which result in the award of dual credit.

Instructors teaching dual credit courses will be required to meet the same standards, reviews, and approval procedures used by the College to select all College faculty.

Official transcripts of all faculty must be kept on file at the College.

Embedded faculty are full-time high school teachers hired by Collin College as associate faculty to teach college courses during regular high school hours. During the college course time at the high school, embedded faculty are under the guidance of Collin College and must follow the guidelines and procedures of the College such as but not limited to, curriculum, FERPA, syllabus, college schedule, etc.

Faculty employed with Frisco ISD who teach a dual credit course under this Agreement outside of their regular duty hours with Frisco ISD are considered employees of Collin College for the purposes of the dual credit course. As employees of Collin College, such faculty will be paid for services rendered under this Agreement in accordance with Collin College's faculty compensation plan.

Faculty employed with Frisco ISD who teach a dual credit course under this Agreement as part of their regular duty hours with Frisco ISD will not receive additional compensation from Collin College. All Dual Credit faculty qualifications outlined in this Agreement still apply. Collin College will pay Frisco ISD the equivalent of the current associate faculty rate of pay and dual credit stipend for the course as consideration for the faculty member teaching the dual credit course.

Dual Credit Embedded Faculty FAQs are attached as Appendix G.

LOCATION OF CLASS AND STUDENT COMPOSITION OF CLASS

Dual Credit courses may be taught on one of the College's campuses, at the high school, online, or at an agreed upon location.

Courses will be comprised of dual credit high school students only or of dual credit high school students and college credit students. High school students will not be allowed to concurrently enroll in college courses for high school credit only.

ACADEMIC POLICIES AND STUDENT SUPPORT SERVICES

Frisco ISD must provide an atmosphere which promotes a collegiate environment for classes which includes adequate classroom facilities, and minimizes disruptions of college classes for announcements, pep rallies, etc., or removal of students from class to conduct high school related activities. After a term's registration period has started, changes cannot be made to the College's class schedule, unless there are extenuating circumstances.

Dual credit courses will follow the Collin College academic calendar. If the Frisco ISD calendar is different, Collin College and Frisco ISD will identify a mutually agreeable alternative arrangement for course continuation.

High school dual credit and concurrent enrollment students will have access to all college academic and student support services including, but not limited to, libraries, electronic library resources, writing centers, tutorial services, assessment, admissions, and academic advisement. Some services are available only on Collin College's campuses.

Per HB1638, all dual credit students receive academic and/or college readiness advising as referenced in the attached Appendix A. Per SB 1277, Frisco ISD designates the home school campus counselor as responsible for academic advising to students in the dual credit program.

High school dual credit and concurrent enrollment students agree to abide by all Collin College policies and procedures as outlined in the current Student Handbook.

The student's 504 campus coordinator or authorized Frisco ISD designee will provide current documentation regarding a student with a disability to Collin College upon the student's enrollment in a dual credit course and upon Collin College receiving a waiver for the FERPA privacy requirements. Collin College will review the student's eligibility for accommodations and the requested accommodations in collaboration with Frisco ISD. At all times, Collin College and Frisco ISD will keep each other informed of the request for accommodation and accommodation complaints regarding dual credit students.

If determined eligible for academic accommodations at Collin College, students must request accommodations each semester. Dual credit course location will determine who provides the academic accommodation needs determined by Collin College's ACCESS Department. Dual credit course accommodations offered on the high school campus are provided by high school personnel. Dual credit course accommodations offered on a College Campus will be provided by Collin College personnel. Collin will work with students enrolled in zero hour dual credit courses on an individual basis to provide reasonable accommodations approved by Collin College's ACCESS Department.

ELIGIBLE COURSES

All courses offered for dual credit will be identified as college-level academic courses in the current edition of the Lower Division Academic Course Guide Manual or as a college level technical course in an Associate of Applied Science (AAS) degree or certificate program. Collin College does not offer physical education activity courses for dual credit. Eight-week courses (such as Maymester or any mini-mester) will not be approved by Frisco ISD unless the course is required as part of a workforce program pathway.

Courses listed in the attached Appendix B have been approved for the 2021-2022 academic year. A course equivalency crosswalk that identifies the number of credits that may be earned for each course completed through the dual credit program in the attached Appendix C has been approved for the 2021-2022 academic year. Programs listed in the attached Appendix D have been approved for the 2021-2022 academic year.

Additional courses may be added with approval from Frisco ISD and Collin College. An addendum will be created if three or more additional courses are requested by Frisco ISD.

COURSE CURRICULUM, INSTRUCTION, AND GRADING

The College will ensure that a dual credit course and the corresponding course offered at the main campus of the College are equivalent with respect to the curriculum, materials, instruction, and method/rigor of student evaluation. These standards will be upheld regardless of the student composition of the class. Dual Credit courses will take additional considerations regarding content appropriateness for students under 18 years old.

Students will be expected to meet all requirements of the dual credit and concurrent enrollment class and will receive letter grades on their Collin College transcript. College faculty will provide numeric grades at the end of the semester to be weighted or factored into the student's high school grade point average as determined by Frisco ISD. Mid-term grades will be provided upon request. Faculty members teaching dual

credit courses will alert both the College liaison and the designated high school counselor of any students having academic difficulty.

Faculty are conscious of FERPA guidelines when communicating with students about grades. Grade information is not provided over the phone or via non-college e-mail. Currently grades of A, B, C, D, F, and I are awarded by faculty to each student on their college transcript. Grades of "I" are only temporary and must be resolved by the end of the next long semester. Numeric grades are also provided to Frisco ISD. If a student withdraws from a course, a "W" will appear on the student's college transcript.

The Grade Appeals Process is available online: <http://www.collin.edu/studentresources/support/gradeappeal.html>.

Faculty will attend faculty meetings and other special meetings called by the division office as needed.

TRANSCRIPTION OF CREDIT

High school and college credit will be added to the students' transcripts immediately by Frisco ISD and Collin College upon the student's completion of the dual credit course.

FUNDING

State funding for dual credit courses will be available to both Frisco Independent School District and Collin County Community College District based upon the current Agreement between the Commissioner of Education and Commissioner of Higher Education.

Tuition and fees will be collected from high school students unless evidence is presented documenting the high school student's eligibility for the reduced or free lunch program in Frisco ISD. Collin College will strive for similar course fees for textbooks among professors. All dual credit students are responsible for purchasing their own textbooks and other required course materials.

TERMINATION

It is agreed that either party may terminate this Agreement effective thirty (30) days after the receipt of written notification.

ADDITIONAL SERVICES

Both parties agree to add the College and Career Counselors Initiative as described in Appendix E, as well as to the Collin College Technical Campus/CTE Partnership Agreement 2021-22 as described in Appendix F.

APPROVAL SIGNATURES

Dr. Mike Waldrip, Superintendent
Frisco Independent School District

Date



[Neil Matkin \(Sep 10, 2021 16:15 CDT\)](#)

Sep 10, 2021

Dr. H. Neil Matkin, District President
Collin County Community College District

Date

APPENDIX A: HB 1638

HB 1638 (85th Legislature, Regular Session), as codified in Texas Education Code, Section 28.009 (b-1) and (b-2), requires the THECB and the TEA to collaboratively develop statewide goals for dual credit programs in Texas. These goals provide guidance to institutions of higher education and independent school districts on components that must be in place to ensure quality dual credit programs are provided to Texas high school students. These statewide goals address enrollment in and acceleration through postsecondary education, performance in college-level coursework, and strong academic advising.

Goal 1: *ISDs and IHEs will implement purposeful and collaborative outreach efforts to inform all students and parents of the benefits and costs of dual credit, including enrollment and fee policies.*

Collin College's dual credit website is regularly updated with enrollment guidelines, policies, and program details. This includes ISD registration and payment deadlines, information session schedules, FAQs, forms and links to student resources.

Collin College provides dual credit information sessions each spring at all partnering high schools to potential students, parents and school counselors before students enroll into dual credit classes for fall.

On an annual basis, Collin College provides two dual credit update sessions to all HS counselors. These include updates on dual credit procedures, testing, ACCESS, as well as shared best practices from school districts. Collin College offers a yearly All-Star Counselor Conference for all local high school counselors. This event is hosted by Collin College's president to honor and reward high school counselors. Breakout sessions with relevant topics are provided and keynote speakers address current issues.

Collin College also uses marketing materials to help inform students and parents regarding the benefits of dual credit. The Mobile Go Center is utilized as well. The Mobile Go Center is a 42-foot air-conditioned trailer equipped with laptop computers, televisions, a printer, and internet connectivity. It is used for dual credit admissions and registration events as well as promotional events. Collin College also has embedded College & Career Counselors at partnering high schools. The College & Career Counselors are part of a new initiative to support local school districts college and career readiness goals. They provide dual credit academic advising, orientations, workshops, and other related services as requested.

Goal 2: *Dual credit programs will assist high school students in the successful transition to and acceleration through postsecondary education.*

Collin College has embedded College & Career Counselors at partnering high schools. The College and Career Counselors are part of a new initiative to support local school districts college and career readiness goals. They provide dual credit academic advising, orientations, workshops, and other related services as requested.

Goal 3: *All dual credit students will receive academic and college readiness advising with access to student support services to bridge them successfully into college course completion.*

All dual credit students receive academic and/or college readiness advising provided by Special Admissions Coordinators and College & Career Counselors. High school dual credit students have access to all college academic and student support services including, but not limited to, libraries, electronic library resources, writing centers, tutorial services, academic accommodations, assessment, admissions, and academic advisement. Per House Bill 5, Collin College also partners with local ISDs to develop and provide courses in college preparatory mathematics and English language arts to prepare students for success in entry-level college courses without the need for remedial or developmental coursework.

Goal 4: *Dual credit students' performance will meet or exceed the level of quality and rigor on subsequent courses.*

Collin College ensures that a dual credit course and the corresponding course offered at the main campus of the College are equivalent with respect to the curriculum, materials, instruction, and method/rigor of student evaluation. These standards are upheld regardless of the student composition of the class.

Instructors teaching dual credit courses are required to meet the same standards, reviews, and approval procedures used by the College to select all College faculty. Faculty attend professional development opportunities provided by Collin College throughout the year.

APPENDIX B: COURSES APPROVED FOR FRISCO ISD/COLLIN COLLEGE DUAL CREDIT FOR THE 2021-2022 ACADEMIC YEAR.**ARTS 1301 Art Appreciation**

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical context. Prerequisite: Meet TSI standard for INRW 0315; or equivalent. 3 credit hours.

AUMT 1266 Practicum I

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Lab required. 2 credit hours.

AUMT 1305 Introduction to Automotive Technology

An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and basic automotive maintenance. May be taught manufacturer specific. Lab required. 3 credit hours.

AUMT 1307 Electrical Systems

An overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of, charging and starting systems, and electrical accessories. Emphasis on electrical principles, schematic diagrams, and service publications. May be taught manufacturer specific. Lab required. 3 credit hours.

AUMT 1316 Suspension and Steering

Diagnosis and repair of automotive suspension and steering systems including electronically controlled systems. Includes component repair, alignment procedures and tire and wheel service. May be taught manufacturer specific. Lab required. 3 credit hours.

AUMT 1345 Automotive Climate Control Systems

Diagnosis and repair of manual/electronic climate control systems. Includes the refrigeration cycle and EPA guidelines for refrigerant handling. May be taught manufacturer specific. Lab required. 3 credit hours.

AUMT 1410 Automotive Brakes

Operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. May be taught manufacturer specific. Lab required. Prerequisite: AUMT 1307. 4 credit hours.

AUMT 1419 Engine Repair

Fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, and disassembly, repair, and reassembly of the engine. May be taught manufacturer specific. Lab required. 4 credit hours.

AUMT 2317 Engine Performance Analysis I

Theory, operation, diagnosis of drivability concerns, and repair of ignition and fuel delivery systems. Use of current engine performance diagnostic equipment. May be taught manufacturer specific. Lab required. 3 credit hours.

AUMT 2421 Automotive Electrical Diagnosis and Repair

Repair of automotive electrical subsystems, lighting, instrumentation, and accessories. Emphasis on accurate diagnosis and proper repair methods using various troubleshooting skills and techniques. May be taught manufacturer specific. Lab required. Prerequisite: AUMT 1307. 4 credit hours.

BIOL 1406 Biology for Science Majors I

Lecture: Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included. Lab: Laboratory activities will reinforce the fundamental principles of living organisms, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Study and examination of the concepts of cytology, reproduction, genetics, and scientific reasoning are included. Lab required. Prerequisite: Meet TSI standard for MATH 0310, and TSI college-readiness standard for Reading and Writing; or equivalent. 4 credit hours.

BIOL 1407 Biology for Science Majors II

Lecture: The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Lab: Laboratory activities will reinforce study of the diversity and classifications of life, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Lab required. Prerequisite: BIOL 1406. 4 credit hours. (A) Note: This course includes dissection in lab.

BIOL 1408 Biology for Non-Science Majors I

Lecture: Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Lab: Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Lab required. 4 credit hours.

BIOL 1409 Biology for Non-Science Majors II

Lecture: This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Lab: Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Lab required. Prerequisite: BIOL 1408. 4 credit hours.

BIOM 2201 Safety in Health Care Facilities

Study of codes, standards and management principles related to biomedical instrumentation. Emphasizes application of safety test equipment, preventive maintenance procedures, and documentation of work performed. Lab required. Prerequisite: HITT 1305. 2 credit hours.

BIOM 2311 General Medical Equipment I

Analysis of selected current paths from a larger schematic. Discussion of equipment and disassembly and reassembly of equipment. Lab required. Prerequisites: CETT 1407, CETT 1425, and HITT 1305. 3 credit hours.

BMGT 1305 Communications in Management

Basic theory and processes of communication skills necessary for the management of an organization's workforce. 3 credit hours.

CETT 1407 Fundamentals of Electronics

Applies concepts of electricity, electronics, and digital fundamentals; supports programs requiring a general knowledge of electronics. Lab required. Corequisite: TECM 1343 or consent of Instructor. 4 credit hours.

CETT 1409 DC-AC Circuits

Fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchhoff's laws, networks, transformers, resonance, phasors, capacitive and inductive circuit analysis techniques. Lab required. Prerequisites: CETT 1407 and TECM 1343. 4 credit hours.

CETT 1425 Digital Fundamentals

Formerly CETT 1325 An entry level course in digital electronics to include numbering systems, logic gates, Boolean algebra, and combinational logic. Lab required. 4 credit hours.

CNBT 1300 Residential and Light Commercial Construction Drawings

Introduction to construction drawings with a focus on residential and light commercial construction. Additionally, this course will include an introduction to computerized prints and related software. Lab required. 3 credit hours.

CNBT 1311 Materials & Methods I

Introduction to construction materials and methods and their applications. Lab required. 3 credit hours.

CNBT 1346 Construction Estimating

Fundamentals of estimating materials and labor costs in construction. Prerequisites: CNBT 1300 and CNBT 2304. 3 credit hours.

CNBT 1359 Project Scheduling

A study of conventional scheduling using critical-path-method; precedence and arrow networks; bar charts; monthly reports; and fast track scheduling. Additionally, scheduling software for the construction industry will be used. Lab required. Prerequisites: CNBT 1300, CNBT 1311, and CNBT 2304. 3 credit hours.

CNBT 2304 Construction Methods and Materials II

Continuation of the study of the properties of building materials, methods and equipment for their integrated use in completing construction projects. Additionally, the course will address

quality control in construction. Lab required. Prerequisites: CNBT 1311 and OSHT 1305. 3 credit hours.

CNBT 2342 Construction Management I

Management skills on the job site. Topics include written and oral communications, leadership and motivation, problem solving, and decision making. Additionally, this course includes customer and contractor relations and ethics in the construction industry. 3 credit hours.

CPMT 1305 IT Essentials I: PC Hardware and Software

Provides comprehensive overview of computer hardware and software and an introduction to advanced concepts addressed by CISCO CCENT certification. Lab required. 3 credit hours.

DSAE 1340 Diagnostic Electrocardiography

Cardiac testing including the techniques and interpretation of patient physical assessment. Covers electrocardiography, stress testing, Holter monitoring, vital signs, and cardiovascular pharmacology. Lab required. 3 credit hours.

ECON 2302 Principles of Microeconomics

Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade. Prerequisite: Meet TSI college-readiness standard for Reading and Writing; or equivalent. 3 credit hours.

EDUC 1300 Learning Framework

A study of the: 1) research and theory in the psychology of learning, cognition, and motivation; 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. 3 credit hours. Note: Students may only take one of the following: EDUC 1200, EDUC 1300, PSYC 1100 or PSYC 1300.

ELMT 1305 Basic Fluid Power

Basic fluid power course covering pneumatic and hydraulic systems, fluid power symbols, operating theory, components, and basic electrical and manual controls. Lab required. Prerequisite: TECM 1343. 3 credit hours.

ENGL 1301 Composition I

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic

essay as a vehicle for learning, communicating, and critical analysis. Lab required. Prerequisite: Meet TSI college-readiness standard for Reading and Writing; or equivalent. 3 credit hours.

ENGL 1302 Composition II

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. Lab required. Prerequisite: ENGL 1301. 3 credit hours.

ENGL 2332 World Literature I

A survey of world literature from the ancient world through the sixteenth century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1302 or ENGL 2311. 3 credit hours.

ENGL 2333 World Literature II

A survey of world literature from the seventeenth century to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1302 or ENGL 2311. 3 credit hours.

ENVR 1401 Environmental Science I

Lecture: A survey of the forces, including humans, that shape our physical and biologic environment, and how they affect life on Earth. Introduction to the science and policy of global and regional environmental issues, including pollution, climate change, and sustainability of land, water, and energy resources. Lab: Activities will cover methods used to collect and analyze environmental data. Lab required. Prerequisite: Meet TSI standard for MATH 0310, and TSI college-readiness standard for Reading and Writing; or equivalent. 4 credit hours. Note: Students may take either ENVR 1401 or GEOL 1305 but not both.

ENVR 1402 Environmental Science II

Continued interdisciplinary study of both natural (biology, chemistry, geology) and social (economics, politics, ethics) sciences as they apply to the environment. Focus on energy issues, global warming, ozone loss, land use, conservation and management, deforestation, biodiversity, the history of environmental law and regulation and local environmental problems. Lab required. Prerequisite: ENVR 1401. 4 credit hours.

GOVT 2305 Federal Government

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. Prerequisite: Meet TSI college-readiness standard for Reading and Writing; or equivalent. 3 credit hours.

GOVT 2306 Texas Government

Origin and development of the Texas Constitution, structure and powers of the state and local government, federalism and inter-governmental relations, political participation, the election process, public policy and the political culture of Texas. Prerequisite: Meet TSI college-readiness standard for Reading and Writing; or equivalent. 3 credit hours.

HART 1256 EPA Recovery Certification Preparation

Certification training for HVAC refrigerant recovery, recycle, and reclaim. Instruction will provide a review of EPA guidelines for refrigerant recovery and recycling during the installation, service, and repair of all HVAC and refrigeration systems. Lab required. 2 credit hours.

HART 1301 Basic Electricity for HVAC

Principles of electricity as required by HVAC, including proper use of test equipment, electrical circuits, and component theory and operation. Lab required. 3 credit hours.

HART 1307 Refrigeration Principles

An introduction to the refrigeration cycle, heat transfer theory, temperature/pressure relationship, refrigerant handling, refrigeration components, and safety. Lab required. 3 credit hours.

HART 1441 Residential Air Conditioning

A study of components, applications, and installation of mechanical air conditioning systems including operating conditions, troubleshooting, repair, and charging of air conditioning systems. Lab required. Prerequisite/Concurrent enrollment: HART 1307. 4 credit hours.

HART 1445 Gas and Electric Heating

Study of the procedures and principles used in servicing heating systems including gas fired furnaces and electric heating systems. Lab required. Prerequisite/Concurrent enrollment: HART 1301. 4 credit hours.

HART 2345 Residential Air Conditioning

Study of the properties of air and results of cooling, heating, humidifying or dehumidifying; heat gain and heat loss calculations including equipment selection and balancing the air system. Lab required. Prerequisite/Concurrent Enrollment: HART 1307. 3 credit hours

HART 2349 Heat Pumps

A study of heat pumps, heat pump control circuits, defrost controls, auxiliary heat, air flow, and other topics related to heat pump systems. Lab required. Prerequisite: HART 1403. 3 credit hours.

HART 2431 Advanced Electricity for HVAC

Advanced electrical instruction and skill building in installation and servicing of air conditioning and refrigeration equipment including detailed instruction in motors and power distribution motors, motor controls, and application of solid state devices. Lab required. Prerequisites: HART 1301 and HART 1403. 4 credit hours.

HART 2438 Air Conditioning Installation and Startup

A study of air conditioning system installation, refrigerant piping, condensate disposal, and air cleaning equipment with emphasis on startup and performance testing. Lab required. Prerequisite/Concurrent enrollment: HART 1307. 4 credit hours.

HIST 1301 U.S. History I

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government. Prerequisite: Meet TSI college-readiness standard for Reading and Writing; or equivalent. 3 credit hours.

HIST 1302 U.S. History II

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War, and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy. Prerequisite: Meet TSI college-readiness standard for Reading and Writing; or equivalent. 3 credit hours.

HITT 1305 Medical Terminology I

Study of medical terms through word origin and structure. Introduction to abbreviations and symbols, surgical and diagnostic procedures, and medical specialties. 3 credit hours.

HPRS 2232 Health Care Communications

Methods of communication with clients, client support groups, healthcare professionals, and external agencies. 2 credit hours.

HPRS 2321 Medical Law and Ethics for Health Professionals

Principles, procedures, and regulations governing the legal and ethical relationships among physicians, patients, and health care professionals. Includes current ethical issues related to the various healthcare professions and patient confidentiality. 3 credit hours.

INTC 1307 Instrumentation Test Equipment

Theory and application of instrumentation test equipment. Emphasizes accuracy, limitations of instruments, and calibration techniques. Lab required. Prerequisite: CETT 1409 or consent of Instructor or Discipline Lead. 3 credit hours.

INTC 1357 AC/DC Motor Control

A study of electric motors and motor control devices common to a modern industrial environment. A presentation of motor characteristics with emphasis on starting, speed control, and stopping systems. Lab required. Prerequisite: CETT 1409. 3 credit hours.

ITCC 1344 CCNA 2: Switching, Routing, and Wireless Essentials (SRWE)

Describes the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts; provides an in-depth understanding of how routers and switches operate and are implemented in the LAN environment. Lab required. Prerequisite: ITCC 1314. 3 credit hours.

ITCC 2320 CCNA 3: Enterprise Networking, Security, and Automation (ENSA)

Describes the architecture, components, operations, and security to scale for large, complex networks, including wide area network (WAN) technologies. Emphasizes network security concepts and introduces network virtualization and automation. Lab required. Prerequisite: ITCC 1344. 3 credit hours.

MATH 1314 College Algebra

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Graphing calculator required. Lab required. Prerequisite: Met TSI college-readiness standard for Mathematics; or equivalent. 3 credit hours.

MATH 1325 Calculus for Business and Social Sciences

This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. This course is not a substitute for MATH 2413, Calculus I. Graphing calculator required. Lab required. Prerequisite: MATH 1314, or MATH 1324, or MATH 1414; or equivalent. 3 credit hours.

MATH 1342 Elementary Statistical Methods

Collection, analysis, presentation and interpretation of data and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. Graphing calculator required. Lab required. Prerequisite: Meet TSI college-readiness standard for Mathematics; or equivalent. 3 credit hours.

MATH 2412 Pre-Calculus Math

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. Graphing calculator required. Lab required. Prerequisite: MATH 1314 or the equivalent preparation. 4 credit hours.

MATH 2413 Calculus I

Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of area. Graphing calculator required. Lab included. Prerequisite: MATH 2412; or equivalent. 4 credit hours.

MDCA 1309 Anatomy and Physiology for Medical Assistants

Emphasis on structure and function of human cells, tissues, organs, and systems with overview of common pathophysiology. Lab required. 3 credit hours.

MDCA 1321 Administrative Procedures

Medical office procedures including appointment scheduling, medical records creation and maintenance, interpersonal communications, bookkeeping tasks, coding, billing, collecting, third party reimbursement, credit arrangements, and computer use in the medical office. 3 credit hours.

NURA 1160 Clinical-Nursing Aide and Patient Care Assistant

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisite: NURA 1301 or consent of Program Director. 1 credit hour.

NURA 1301 Nurse Aide for Health Care

Knowledge, skills, and abilities essential to provide basic care to residents of long-term care facilities. Topics include resident's rights, communication, safety, observation, reporting and assisting residents in maintaining basic comfort and safety. Emphasis is on effective interaction with members of the health care team, restorative services, mental health, and social service's needs. Lab required. 3 credit hours.

OSHT 1305 Construction Safety

A study of Occupational Safety and Health Administration (OSHA) regulations pertinent to the construction industry. Lab required. 3 credit hours.

PHRA 1201 Introduction to Pharmacy

An overview of the qualifications, operational guidelines, and job duties of a pharmacy technician. 2 credit hours.

PHRA 1205 Drug Classification

A study of pharmaceutical drugs, abbreviations, classifications, dosages, side effects, and routes of administration. Lab required. 2 credit hours.

PHRA 1209 Pharmaceutical Mathematics I

Solving pharmaceutical calculation problems encountered in the preparation and distribution of drugs. Lab required. 2 credit hours.

PHRA 1260 Clinical – Pharmacy Technician/Assistant

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. 2 credit hours.

PHRA 1313 Community Pharmacy Practice

Introduction to the skills necessary to process, prepare, label, and maintain records of prescriptions in a community pharmacy to include customer service, count and pour techniques, prescription calculations, drug selection and preparation, over-the-counter drugs, inventory management and legal parameters. Lab required. Prerequisite/Concurrent Enrollment: PHRA 1209. 3 credit hours.

PHRA 1349 Institutional Pharmacy Practice

Fundamentals of the diverse roles and practice of pharmacy technicians in an institutional pharmacy setting. In-depth coverage of hospital pharmacy organization, work flow and personnel, safety techniques, data entry, packaging and labeling operations, inpatient drug distribution systems including investigational drugs, continuous quality improvement and inventory control. Lab required. Prerequisite/Concurrent Enrollment: PHRA 1209. 3 credit hours.

PHYS 1403 Stars and Galaxies

Introduction to stars and galaxies; basic tools and concepts in astronomy and physics are discussed. Subjects studied include stellar evolution, supernovae, black holes, neutron stars, galaxies, and quasars. Laboratory exercises, night observations, planetarium and observatory visits combine to enhance lecture material. Lab required. Prerequisite: Meet TSI standard for MATH 0310, and TSI college-readiness standard for Reading; or equivalent. 4 credit hours.

PHYS 1404 Solar System

Introduction to the solar system; basic tools and concepts in astronomy and physics are discussed. Subjects studied include planets, moons, asteroids, comets, solar system formation, and solar system exploration. Laboratory exercises, night observations, planetarium and observatory visits combine to enhance lecture material. Lab required. Prerequisite: Meet TSI standard for MATH 0310, and TSI college-readiness standard for Reading; or equivalent. 4 credit hours.

PLAB 1323 Phlebotomy

Skill development in the performance of a variety of blood collection methods using proper techniques and standard precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults, children, and infants. Emphasis on infection prevention, patient identification, specimen labeling, quality assurance, specimen handling, processing, accessioning, professionalism, ethics, and medical terminology. Lab required. 3 credit hours.

PSTR 1301 Fundamentals of Baking

Fundamentals of baking including dough, quick breads, pies, cakes, cookies, and tarts. Instruction in flours, fillings, and ingredients. Topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the evaluation of baked products. Professional chef uniform and kitchen tools required. Lab required. Prerequisite: Mandatory Culinary / Pastry Arts Orientation. 3 credit hours.

PTHA 1160 Clinical – Physical Therapist Assistant

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisite: PTHA 1409. 1 credit hour.

PTHA 1409 Introduction to Physical Therapy

Introduction to the profession of physical therapy and the role of the physical therapist assistant. Includes the application of basic patient handling, functional skills, communication, and selected data collection techniques. Lab required. 4 credit hours.

PTHA 1413 Functional Anatomy

The relationship of the musculoskeletal and neuromuscular systems to normal and abnormal movement. Lab required. 4 credit hours.

RBTC 1405 Robotic Fundamentals

Formerly RBTC 1305 An introduction to flexible automation. Topics include installation, repair, maintenance, and development of flexible robotic manufacturing systems. Lab required. 4 credit hours.

SOCI 1301 Introduction to Sociology

The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance. Prerequisite: Meet TSI college-readiness standard for Reading and Writing; or equivalent. 3 credit hours.

SPCH 1311 Introduction to Speech Communication

Introduces basic human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking. Prerequisite: Meet TSI college-readiness standard for Reading and Writing; or equivalent. 3 credit hours.

TECM 1343 Technical Algebra and Trigonometry

Algebraic and trigonometric applications used in technical/industrial settings. Lab required. 3 credit hours.

Articulated Credits or Courses:

Conditions of articulated courses are formulated with representatives from Frisco Independent School District and Collin College regarding student evaluation criteria, course content, and exit competencies. Through this Agreement, Collin College agrees to articulate college credit for the college level high school courses listed below provided the following requirements are met.

- a) College credit hours only shall be awarded once the student enrolls at Collin College and successfully completes 3 additional credit hours.
- b) Students enrolled in concurrent or dual credit courses may apply credit hours earned with a C or better towards the fulfillment of the 3-credit requirement.
- c) Remedial or developmental course hours taken at the College may not be included in the total credit hours.
- d) Students must satisfactorily complete an end-of-course exam covering student learning outcomes for the articulated course.
- e) The articulated course or courses appear in the College catalog.
- f) Frisco ISD agrees that for each student participating in an articulated course, Frisco ISD will denote the course with the letter "A" on the student transcript.
- g) Once the 3 credit hours are earned, students will submit the Petition for Articulated Credit form for the articulated credits to be added to their transcripts by the Academic Partnership Office. Petitions must be submitted to Collin College within 12 months of high school graduation.
- h) Successful completion of a high school course eligible for articulated credit does not guarantee that a student will receive college credit for the course.

Frisco ISD Course	Collin College Course	
Computer Programming & PC Maintenance	CPMT 1305	IT Essentials
Internet Work I Cisco 1	ITCC 1314	CCNA 1
Internet Work 1 Cisco 2	ITCC 1344	CCNA 2
Sports Management	BMGT 2382	Cooperative Education - Business Administration & Management
Sports Management	KINE 1336	Introduction to Sports Management
Instructional Practices in Health Science	HPRS 1201	Introduction to Health Professions

APPENDIX C: CROSSWALK APPROVED FOR FRISCO ISD/COLLIN COLLEGE DUAL CREDIT FOR THE 2021-2022 ACADEMIC YEAR.

2021-22 DUAL CREDIT CROSSWALK				
PEIMS Code	HS Dual Credit Course Title	Possible HS Credit 0.5 = 1 sem 1.0 = 1 year	Collin College Course Title	College Hours
Academic Courses				
Academic Preparatory for Dual Credit				
13014200	Principles of Education and Training	0.5	Learning Framework (EDUC 1300)	3
English for Dual Credit				
03220300	Col Engl 1301-Eng 3 & Col Engl 1302-Eng 3	0.5	Composition I (ENGL 1301)	3
		0.5	Composition II (ENGL 1302)	3
03220400	Col Engl 1301-Eng 4 & Col Engl 1302-Eng 4	0.5	Composition I (ENGL 1301)	3
		0.5	Composition II (ENGL 1302)	3
03220400	Col WorldLit Engl 2332 & Col WorldLit Engl 2333 (English IV if ENGL 1301 and 1302 was taken for Eng III credit)	0.5	World Literature I (ENGL 2332)	3
		0.5	World Literature II (ENGL 2333)	3
Fine Arts for Dual Credit				
03500110	Col Arts 1301	0.5	Art Appreciation (ARTS 1301)	3
Mathematics for Dual Credit				
03102500	Col Alg MATH 1314	0.5	College Algebra (MATH 1314)	3
03102500	Col Trig 1316	0.5	Plane Trigonometry (MATH 1316)	3
03102502	Col PreCal MATH 2412	0.5	Pre-Calculus Math (MATH 2412)	4
03102501	Calc Stats 1342	0.5	Elementary Statistical Methods (MATH 1342)	3
03102502	Col Calc MATH 2413	0.5	Calculus I (MATH 2413)	4
03102501	Calc Bus & Econ 1325	0.5	Calculus for Business and Social Sciences (MATH 1325)	3

Science for Dual Credit				
13037200	Col Biology 1406 and Col Biology 1407	0.5	Biology for Science Majors I (BIOL 1406)	4
		0.5	Biology for Science Majors I (BIOL 1407)	4
13037200	Col Biology 1408 & Col Biology 1409	0.5	Biology for Non-Science Majors I (BIOL 1408)	4
		0.5	Biology for Non-Science Majors II (BIOL 1409)	4
03020000	Col Environmental Systems	0.5	Environmental Science I (ENVR 1401)	4
		0.5	Environmental Science II (ENVR 1402)	4
03060100	Col Astronomy	0.5	Stars and Galaxies (PHYS 1403)	4
		0.5	Solar System (PHYS 1404)	4
Social Studies for Dual Credit				
03340100	Col US Hist 1301 & Col US Hist 1302 (US History)	0.5	United States History I (HIST 1301)	3
		0.5	United States History II (HIST 1302)	3
03310300	Col Econ 2302	0.5	Principles of Microeconomics (ECON 2302)	3
03330100	Col Govt 2305	0.5	Federal Government (GOVT 2305)	3
03380002	Col TX Govt 2306	0.5	Texas Government (GOVT 2306)	3
03380001	Col Intro Soci 1301	0.5	Introduction to Sociology (SOCL 1301)	3
Speech for Dual Credit				
03241200	Col Spch 1311	0.5	Introduction to Speech Communication (SPCH 1311)	3
Health Science Courses				
Electrocardiography (EKG)				
13020510	Practicum in Health Science (EKG) (Second Time Taken)	2	Diagnostic Electrocardiography (DSAE 1340)	3
			Electrocardiography (ECRD 1111)	1
Health Science (CNA)				
13020410	Health Science Theory/Health Science Clinical (CNA)	1	Nurse Aide for Health Care (NURA 1301)	3
			Clinical – Nursing Aide and Patient Care Assistant (NURA 1160)	1

Medical Scribe				
13020500	Medical Scribe	2	Medical Terminology I (HITT 1305)	3
			Medical Law and Ethics for Health Professions	3
			A&P for Medical Assistants (MDCA 1309)	3
			Administrative Procedures (MDCA 1321)	3
Pharmacy Technician				
13020510	Pharmacy Technician	2	Introduction to Pharmacy (PHRA 1201)	2
			Drug Classification (PHRA 1205)	2
			Pharmaceutical Mathematics I (PHRA 1209)	2
			Clinical - Pharmacy Technician/Assistant (PHRA 1260)	2
			Community Pharmacy Practice (PHRA 1313)	3
			Institutional Pharmacy Practice (PHRA 1349)	3
Rehab Aide				
13020500	Rehabilitation Aide	2	Intro to Physical Therapy (PTHA 1409)	4
			Health Care Communication (HPRS 2232)	2
			Functional Anatomy (PTHA 1413)	4
			Clinical – Physical Therapist Assistant (PTHA 1160)	1
Workforce Courses				
Culinary Arts				
13022650	Advanced Culinary Arts	1	Basic Food Preparation (CHEF 1301)	3
			Catering (RSTO 2307)	3
13022700	Practicum in Culinary Arts (First Time Taken)	1	Fundamentals of Baking (PSTR 1301)	3
Information Technology				
N1302804	Internetworking II	1	CCNA 2: Switching, Routing, and Wireless Essentials (ITCC 1344)	3
			CCNA 3: Scaling Networks (ITCC 2320)	3

CTE Programs				
Biomedical Equipment Technology for Dual Credit				
13020500	Practicum in Health Science (Biomedical Equipment 1)	2	Technical Algebra and Trigonometry (TECM 1343)	3
			Fundamentals of Electronics (CETT 1407)	4
			Digital Fundamentals (CETT 1425)	4
			DC-AC Circuits (CETT 1409)	4
13020510	Practicum in Health Science (Biomedical Equipment 2)	2	IT Essentials: PC Hardware and Software (CPMT 1305)	3
			Safety in Health Care Facilities (BIOM 2201)	2
			General Medical Equipment I (BIOM 2311)	3
			Medical Terminology (HITT 1305)	3
Industrial Automation for Dual Credit				
13033000	Practicum in Manufacturing (Industrial Automation 1)	2	Technical Algebra and Trigonometry (TECM 1343)	3
			Fundamentals of Electronics (CETT 1407)	4
			Digital Fundamentals (CETT 1425)	4
			DC-AC Circuits (CETT 1409)	4
13033010	Practicum in Manufacturing (Industrial Automation 2)	2	Instrumentation Test Equipment (INTC 1307)	3
			AC/DC Motor Control (INTC 1357)	3
			Basic Fluid Power (ELMT 1305)	3
			Robotic Fundamentals (RBTC 1405)	4
Construction Management for Dual Credit				
13004900	Construction Management I	2	Construction Management I (CNBT 2342)	3
			Materials & Methods I (CNBT 1311)	3
			Residential and Light Blueprint Reading (CNBT 1300)	3
			Construction Safety (OSHT 1305)	3
13005000	Construction Management 2	2	Project Scheduling (CNBT 1359)	3
			Construction Estimating (CNBT 1346)	3
			Communications in Management (BMGT 1305)	3
			Construction Methods & Materials II (CNBT 2304)	3

HVAC Certificate for Dual Credit				
13005600	Electrical Technology	1	Basic Electricity for HVAC (HART 1301)	3
			EPA Recovery Certification Preparation (HART 1256)	2
			Gas and Electric Heating (HART 1445)	4
13005800	HVAC 1	1	Refrigeration Principles (HART 1307)	3
			Residential Air Conditioning (HART 1441)	4
13005900	HVAC 2	2	Advanced Electricity for HVAC (HART 2431)	4
			Air Conditioning Installation and Startup (HART 2438)	4
			Heat Pumps (HART 2349)	3
			Residential Air Conditioning Systems Design (HART 2345)	3
Automotive Technology for Dual Credit				
13039600	Automotive Technology I	2	Introduction to Automotive Technology (AUMT 1305)	3
			Electrical Systems (AUMT 1307)	3
			Suspension and Steering (AUMT 1316)	3
			Automotive Brakes (AUMT 1410)	2
			Practicum I (AUMT 1266)	2
13039700	Automotive Technology II	2	Engine Repair (AUMT 1419)	4
			Automotive Electrical Diagnosis and Repair (AUMT 2421)	4
			Automotive Climate Control Systems (AUMT 1345)	3
			Engine Performance Analysis I (AUMT 2317)	3
			Practicum II (AUMT 2266)	2

APPENDIX D: PROGRAMS APPROVED FOR FRISCO ISD/COLLIN COLLEGE DUAL CREDIT FOR THE 2021-2022 ACADEMIC YEAR.**Associate of Arts (AA) Degree**

The following requirements must be met for an Associate of Arts (AA) award:

1. Earn a minimum of 60 college-level credit hours.
2. Earn a minimum cumulative grade point average (GPA) of 2.0
3. Complete the general education core curriculum of 42 credit hours.
4. Complete a minimum of 18 additional credit hours of degree requirements and electives that are specified on each program's page.
5. Earn a minimum of 18 credit hours at Collin College.

Associate of Science (AS) Degree

The following requirements must be met:

1. Earn a minimum of 60 college-level credit hours.
2. Earn a minimum cumulative grade point average (GPA) of 2.0
3. Earn a minimum of 18 credit hours at Collin College.
4. Complete the general education core curriculum of 42 credit hours.
5. Complete a minimum of 18 additional credit hours of degree requirements and electives.
6. Complete the mathematics and science degree requirements for the AS degree:
 - A. Complete at least six credit hours of mathematics from the AS Math course options. Three credit hours of these mathematics will also meet the Mathematics core requirement.
 - B. Complete at least eight credit hours of natural science from the AS Science course options. A two-course sequence is recommended. These Science courses will meet the Natural Science core requirement.

Associate of Applied Science (AAS) Degree

AAS degrees require 60-68 credit hours with at least half of the coursework in a technical specialty area of the degree. All AAS degrees require a minimum of 15 credit hours of general education. The 15 credit hours of general education coursework must be distributed as follows:

1. At least three semester credit hours from humanities/fine arts;
2. At least three semester credit hours from social/behavioral sciences;
3. At least three semester credit hours from natural sciences/mathematics.

Associate of Arts in Teaching (AAT) Degree

The following requirements must be met:

1. Earn a minimum of 60 college-level credit hours.
2. Complete the General Education Core of 42 credit hours.
3. Earn a minimum cumulative grade point average (GPA) of 2.0.
4. Earn a minimum of 18 credit hours at Collin College.
5. Complete all the courses listed for one of three AAT diploma options.

Collin College offers degree plans with three specializations in mind: early childhood through grade 6; middle grades (grades 4-8); and high school (grades 8-12).

Certificate Level 1 – Culinary Arts

24 credit hours

First Semester

CHEF 1301	Basic Food Preparation
CHEF 1305	Sanitation and Safety
CHEF 2331	Advanced Food Preparation
PSTR 1301	Fundamentals of Baking

Second Semester

CHEF 1310	Grand Manager (Capstone)
CHEF 1341	American Regional Cuisine
CHEF 1345	International Cuisine
IFWA 1310	Nutrition and Menu Planning

Certificate Level 1 – Infrastructure Technician (CCNA)

18 credit hours

First Semester

ITNW 1358	Network +
ITCC 1314	CCNA 1: Introduction to Networks
ITCC 1340	CCNA 2: Routing and Switching Essentials

Second Semester

ITCC 2341	CCNA Security
ITCC 2312	CCNA 3: Scaling Networks
ITCC 2313	CCNA 4: Connecting Networks

OSA – Certified Nurse Aide Track

12 credit hours

HITT 1305	Medical Terminology I
HPRS 1201	Introduction to Health Professions ¹
HPRS 2301	Pathophysiology
NURA 1160	Clinical - Nursing Aide and Patient Care Assistant
NURA 1301	Nurse Aide for Health Care

¹. May substitute HPRS 1204**OSA – Electrocardiograph Technician (EKG) Track**

9 credit hours

DSAE 1340	Diagnostic Electrocardiography
ECRD 1111	Electrocardiography
HITT 1305	Medical Terminology I
HPRS 1271	Introduction to the Healthcare System OR HPRS 1204 Basic Health Profession Skills

OSA - Medical Scribe

12 credit hours

HITT	1305	Medical Terminology I
HPRS	2321	Medical Law and Ethics for Health Professionals
MDCA	1309	Anatomy and Physiology for Medical Assistants
MDCA	1321	Administrative Procedures

OSA – Rehabilitation Aide

11 credit hours

PTHA	1409	Introduction to Physical Therapy
HPRS	2232	Health Care Communications
PTHA	1413	Functional Anatomy
PTHA	1160	Clinical – Physical Therapist Assistant

OSA – Pharmacy Technician

14 credit hours

PHRA	1201	Introduction to Pharmacy
PHRA	1205	Drug Classification
PHRA	1209	Pharmaceutical Mathematics I
PHRA	1260	Clinical – Pharmacy Technician/Assistant
PHRA	1313	Community Pharmacy Practice
PHRA	1349	Institutional Pharmacy Practice

Please see Appendix F for a list of programs available at the Collin College Technical Campus

APPENDIX E: COLLEGE AND CAREER COUNSELORS INITIATIVE

PURSUANT to the terms of the Partnership Agreement, both Parties agree to include the College and Career Counselors Initiative program between Frisco ISD and Collin College, as described therein. Both Parties desire to describe the terms and conditions set forth in the Services in this Exhibit that are added to or changed from the Partnership Agreement. The parties understand and agree that this Partnership Agreement is the controlling document which governs the relationship between the parties regarding the modified Services and the rights and obligations of the parties arising by virtue of the Partnership Agreement. This exhibit only applies to the College and Career Counselors Initiative program and these terms only apply to this program.

NOW, THEREFORE, the parties, intending legally to be bound, agree as follows:

1. BACKGROUND

The following additions are hereby incorporated into the Collin County Community College District and Frisco Independent School District Partnership Agreement to support the College and Career Counselors Initiative.

2. COLLIN COLLEGE WILL PROVIDE THE FOLLOWING

2.1 A College and Career Counselor assigned to the high school on a daily full-day or part-day basis in a part-time role (20 hours per week)

3. FRISCO ISD WILL PROVIDE THE FOLLOWING

3.1 Designated office space for the College and Career Counselors to meet with students and or parents

3.2 Access to students for College and Career Advisement

4. FUNDING PROVISIONS

4.1 All salaries, fringe benefits, professional development, local travel, supplies for the College and Career Counselor will be provided by Collin College.

5. TERMINATION (ONLY APPLIES TO COLLEGE AND CAREER COUNSELOR PROGRAM)

5.1 It is agreed that either party may terminate this Agreement effective thirty (30) days after the receipt of written notification.

APPENDIX F: COLLIN COLLEGE TECHNICAL CAMPUS/CTE PARTNERSHIP AGREEMENT 2021-22

The purpose of Appendix F is to outline the plan for the implementation of the Collin College Technical Campus Partnership between Collin College and Frisco Independent School District.

In an effort to enhance Frisco ISD's ability to expand Career and Technical Education (CTE) programs and to enhance Collin College's ability to meet workforce needs, the College has designed and built the Collin College Technical Campus (CTC) located at 2550 Bending Branch Way, Allen, TX 75013. The CTC houses a variety of new and existing workforce programs: Biomedical Equipment Technology, Electronic Engineering Technology, Industrial Automation, Construction Management, HVAC, Automotive Technology, Collision Technology.

New workforce programs and courses are being developed to address labor market needs using a model that connects business and industry leaders directly with the curriculum development process. CTE Directors will be included as representatives on advisory committees in an effort to ensure the coordination of industry recognized credentialing, responsive curriculum development, timely program review and the availability of applicable field experiences for the students. Stackable programs will ensure employment opportunities for high school graduates possessing entry level certifications as well as for students earning certificates or associate degrees.

Responsibilities of the College and Frisco ISD:

- Collin College is responsible for the Collin College Technical Campus operationally and for all equipment, warranties, utilities, supplies, etc. related to the campus.
- Collin College is responsible for hiring faculty and staff and all related salary commitments for full and part-time personnel.
- Collin College is responsible for purchasing consumable classroom materials and supplies, and software licensing fees for instructional materials.
- Collin College will pay the certification and/or licensing exam fee as determined for each program by the course for each student (first attempt only). Additional attempts will be the responsibility of the student.
- Collin College will provide uniform shirts and select specialized equipment as needed depending on the CTE program.
- Collin College will provide CTE students with access to tools needed to complete the CTE program for use while enrolled.
- Collin College will provide orientation and information sessions for Frisco ISD students and parents.
- Collin College will provide detailed guidelines for admission to specific CTE programs in consultation with Frisco ISD personnel.

- Collin College will offer one-, two- or three-hour block scheduled courses 5 days per week and up to 160 days per academic year.
- Collin College will provide Frisco ISD students who meet pre-determined admission criteria specific information for course registration for the select CTE programs.
- Frisco ISD students are responsible for the tuition established by Collin College.
- Frisco ISD agrees to pay Collin College \$300 per block hour, per student and per course for students enrolled in scheduled workforce courses listed above.
- Frisco ISD CTE Directors will participate in advisory committee meetings. Frisco ISD will work with Collin College to develop student recruitment strategies that involve students and parents in middle school and high school.
- Collin College and Frisco ISD will provide career counseling and information regarding employment opportunities, salary expectations, educational requirements, etc.
- Collin College and Frisco ISD will collaborate to determine class schedules and transportation options to accommodate technical dual credit students.

Additional details, not included above, will be identified and discussed between both parties to ensure a mutually beneficial partnership is maintained.

Career and Technical Education Dual Credit

Certification Earned by Dual Credit Students

Academic Year 2021-2022

AUTOMOTIVE TECHNOLOGY				**Students should be prepared to take and pass the listed certification tests
Year 1	Fall	AUMT 1305 AUMT 1307	Introduction to Automotive Technology Automotive Electrical Systems	*ASE (G1) Auto Maintenance and light Repair
	Spring	AUMT 1316 AUMT 1410	Automotive Suspension and Steering Systems Automotive Brake Systems	*ASE (A4) - Suspension and Steering *ASE (A5) - Brakes *Texas Department of Public Safety State Inspection License (NOT facilitated by Collin College)
Certificate Level 1 - Brake and Front-end Specialist				
Year 2	Fall	AUMT 1419 AUMT 2421	Automotive Engine Repair Automotive Electrical Diagnosis and Repair	*ASE (A1) - Engine Repair *ASE (A6) - Electrical/Electronic Systems *Eligible for Certificate Level 1-Brake and Front-end Specialist
	Spring	AUMT 2313 AUMT 1345	Automotive Drive Trains and Axles Automotive Climate Control systems	*ASE (A3) - Manual Drive Train and Axles *EPA 609 Refrigerant and recovery certification <i>**ASE certifications require 2 years of experience working in that area for certification.</i>
COMPUTER NETWORKING				
Year 1	Fall	CPMT 1305 ITNW 1358	IT Essentials I: PC Hardware and Software Network+	CompTIA A+ CompTIA IT Network+
	Spring	ITCC 1314 ITCC 1344 Essentials	CCNA1: Introduction to Networks CCNA 2: Switching, Routing, and Wireless	Cisco Certified Technician (CCT) Certified Entry Network Technician (CCENT)



Technical Campus

Certificate Level 1 - Infrastructure Technician (CCNA)

Year 2	Fall	ITSE 1359 Python	Introduction to Scripting Languages - Python	Python
	Spring	ITCC 2320	CCNA 3: Enterprise Networking, Security, and Automation	A part of the CCENT

CONSTRUCTION MANAGEMENT**Certification Exams Taken**

Year 1	Fall	CNBT 2342 CNBT 1311	Construction Management I Materials & Methods I	NCCER-Construction Drawings NCCER-Basic Communication Skills NCCER-Basic Safety, Rigging, Material Handling NCCER-Hand Tools, Power Tools NCCER-Basic Employability Skills Construction Math OSHA 30 CPR/First Aid
	Spring	CNBT 1300 OSHT 1305	Residential & Light Commercial Blueprint Reading Construction Safety	

Year 2	Fall	CNBT 1359 CNBT 1346	Project Scheduling Construction Estimating	
	Spring	BMGT 1305 CNBT 2304	Communications in Management Construction Methods and Materials II	

HVAC TECHNOLOGY

Year 1	Fall	HART 1401 HART 1407	Basic Electricity for HVAC Refrigeration Principles	Required: EPA 608 & 410A Safety Certification Exams Students required to pick two from: Preventative Maintenance Cert./Indoor Air Quality Cert./Green Certification
	Spring	HART 1445 HART 1441	Residential Air Conditioning Gas and Electric Heating	Recommended: Fluke Safety Certification Bonus Option: TDLR Registered Technician

Residential Servicing Certificate			
Year 2	Fall	HART 2431	Advanced Electricity for HVAC
		HART 2438	Air Conditioning Installation and Startup
	Spring	HART 2345	Residential Air Conditioning Systems Design
		HART 2349	Heat Pumps

Year 2	Fall	HART 2431	Advanced Electricity for HVAC	
		HART 2438	Air Conditioning Installation and Startup	
	Spring	HART 2345	Residential Air Conditioning Systems Design	
		HART 2349	Heat Pumps	

WELDING TECHNOLOGY		Entry Welding Certification		
Year 1	Fall	WLDG 1407	Introduction to Welding Using Multiple Processes	
		WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW)	
	Spring	WLDG 1430	Introduction to Gas Metal Arc Welding (GMAW)	
		WLDG 1434	Introduction to Gas Tungsten Arc Welding (GTAW)	
		Certificate Level 1 - Gas Shielded Welding Certification		
Year 2	Fall	WLDG 1317	Introduction to Layout and Fabrication	
		WLDG 2447	Advanced Gas Metal Arc Welding (GMAW)	
	Spring	WLDG 1313	Introduction to Blueprint Reading for Welders	
		WLDG 2451	Advanced Gas Tungsten Arc Welding (GTAW)	

Year 1	Fall	WLDG 1407	Introduction to Welding Using Multiple Processes	
		WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW)	
	Spring	WLDG 1430	Introduction to Gas Metal Arc Welding (GMAW)	
		WLDG 1434	Introduction to Gas Tungsten Arc Welding (GTAW)	

Year 2	Fall	WLDG 1317	Introduction to Layout and Fabrication	
		WLDG 2447	Advanced Gas Metal Arc Welding (GMAW)	
	Spring	WLDG 1313	Introduction to Blueprint Reading for Welders	
		WLDG 2451	Advanced Gas Tungsten Arc Welding (GTAW)	



Technical Campus

APPENDIX G: DUAL CREDIT EMBEDDED FACULTY FAQs

What are Embedded Faculty?

Embedded faculty are full-time high school teachers hired by Collin College as associate faculty to teach College courses during regular high school hours. During the college course time at the high school, embedded faculty are under the guidance of Collin College and must follow the guidelines and procedures of the College such as but not limited to, curriculum, FERPA, syllabus, college schedule, etc.

What are the necessary qualifications?

All faculty credentials are consistent with Collin College and the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) Guidelines for Faculty Credentials, the Texas Administrative Code Section 7.4(11) (Appendix A), and program-level accrediting agency requirements that apply. Faculty teaching transfer courses require a master's degree with 18 graduate hours in the discipline.

Faculty teaching in workforce programs must meet the requirements found in the Texas Higher Education Coordinating Board Guidelines (www.theccb.state.tx.us/reports/pdf/3378.pdf#page=8)

Faculty in these programs may have a bachelor's degree in the teaching discipline, an associate's degree, a certificate, or professional work experience that demonstrates competencies in the teaching discipline as required by the specific program. Other demonstrated competencies and achievements that contribute to effective teaching and successful student learning outcomes are also considered during the hiring process. For all cases, Collin College provides justifying documentation of the qualifications of its faculty.

Collin College faculty credential requirements are the same, regardless of location, time of day, day of the week or modality of the course to be taught. Collin College does not distinguish, for the purpose of faculty qualifications, between full-time or associate (part-time) positions. After being hired, faculty who wish to teach distance learning sections of a course are required to participate in online training modules prior to receiving an assignment in that modality.

What are the expectations for Embedded Faculty in the classroom?

As Collin College associate faculty, embedded faculty are responsible for fulfilling all regular duties and responsibilities of all college faculty, including, but not limited to: maintaining college-level rigor in all instructional practices, utilizing a Canvas shell for each course, developing a course syllabus and calendar of assignments, certifying rosters, following FERPA regulations, providing mid-term and final numerical grades to the Dual Credit Office, posting

final course grades in the College's student management system, and responding promptly to emails, request and due dates sent by the offices of academic affairs.

How is the compensation dispersed?

Faculty employed with the school district who teach a dual credit course as part of their regular duty hours with the school district will not receive additional compensation from Collin College. All dual credit faculty qualifications outlined in the agreed terms still apply. Collin College will pay the school district the equivalent of the current associate faculty rate of pay and dual credit stipend for each course taught by an embedded faculty member.

Faculty employed with the school district who teach a dual credit course outside of their regular duty hours with the school district will be paid the current associate faculty rate of pay for services rendered under the agreed terms in accordance with Collin College's faculty compensation plan.

How does scheduling work?

Embedded faculty will work with the appropriate Associate Deans/Director and their high school regarding class schedules during the high school day.

How does evaluation of Embedded Faculty work?

The College will select, supervise, and evaluate all faculty employed by Collin College, including embedded faculty. Embedded faculty teaching dual credit courses will be evaluated through class observations and student evaluations in the same manner as all college faculty.

What if an Embedded Faculty member must be absent from class and wants a substitute to meet the class?

The embedded faculty member should follow the high school's absence procedure, but must also contact their Collin College supervisor (Associate Dean/Director) to inform them that they will be absent and would like a substitute. In the class period where the college curriculum is covered, a credentialed College employee can meet the class and provide instructional coverage. This must be arranged in advance of the absence.

What happens if the teacher leaves the district in the middle of the semester?

The College will work to find a qualified faculty to teach the remainder of the course in the same medium as originally agreed. If this is not an option, Collin will work with the district to find another reasonable solution.

Who provides 504 accommodations?

Students who receive accommodations from the ISD may be eligible for accommodations from Collin College; however, their accommodations from the ISD are not applicable to the college classroom. Students must contact the College's ACCESS office and be evaluated by a case officer and presented with an accommodation letter from the College. The student must self-identify her/himself as needing accommodations, present a copy of the letter to the instructor, and discuss with the professor specific accommodations she/he wishes to employ in the class.

What is the protocol if there are issues/concerns/questions with the assigned Embedded Faculty during the college course?

The high school Principal or Assistant Principal will collaborate with the appropriate Collin College Associate Dean or Director and the P-12 Partnerships office to develop an equitable solution that supports the needs of both educational entities and the best interests of the student.