BERKNER STEM ACADEMY

Career and Technical Education Pathways

BUSINESS AND INDUSTRY ENDORSEMENT

Architecture & Construction Cluster

JH Course Option: Intro to CAD, Architecture & Construction - CT7060

▶ Construction Technology Pathway

Level 1: Principles of Construction - CT7127 ..... 1 credit
Level 2: Construction Technology I - CT7125..... 2 credits
Level 3: Construction Technology II - CT7122..... 2 credits
Level 4: Practicum in Construction Technology - CT7132 ..... 2 credits

Arts, Audio Video Technology & Communication Cluster

JH Course Option: Principles of Arts & AV - CT7024

▶ Digital Communications: Animation Pathway

Any Level: Arts & Entertainment Technology OnRamps - U7819..... 1 credit
Level 1: Digital Media - CT7503 ..... 1 credit
Level 2: Animation I - CT7204..... 1 credit
Level 3: Animation II - CT7213 ..... 2 credits
Level 3 or 4: 3D Modeling and Animation - CT7835..... 1 credit
Level 4: Practicum in Animation - CT7216..... 2 credits

▶ Digital Communications: AV Production Pathway

Level 1: Principles of Arts, AV Technology & Communication - CT7200 .... 1 credit
Level 2: Audio Video Production I - CT7205..... 1 credit
Level 3: Audio Video Production II - CT7206 ..... 2 credits
Level 3 or 4: Digital Audio Technology - CT7217..... 1 credit
Level 4: Practicum of Arts, AV Comm I - CT7211..... 2 credits
Level 5: Practicum of Arts, AV Comm II - CT7247..... 2 credits

▶ Video Game Design Pathway

Level 1: Video Game Design - CT7234..... 1 credit
Level 2: Game Programming & Design - 7827..... 1 credit
Level 3: Video Game Programming - CT7235 ..... 1 credit
Level 4: Advanced Video Game Programming - CT7219..... 1 credit

Business, Marketing & Finance Cluster

JH Course Option: Principles of Business, Marketing & Finance - CT7021

▶Banking and Financial Services Pathway

Level 1: Principles of Business, Marketing & Finance - CT7220..... 1 credit
Level 2: Bank & Fin Srvs - 13016300) / Social Media Mktg - CT7607 ..... 0.5/0.5
Level 3: Securities & Investments - CT7303..... 1 credit
Level 4: Practicum of Banking - CT7227..... 2 credits

▶ Entrepreneurship Pathway

Level 1: Foundations of Business Comm. and Technologies - CT7222..... 1 credit
Level 2: Entrepreneurship I - CT7608 ..... 1 credit
Level 3: Entrepreneurship II - CT7609..... 1 credit
Level 4: Pract in Entrepreneurship - CT7612 / Career Prep I - CT7248 ..... 2 or 3

▶ Marketing & Sales Pathway

Level 1: Principles of Business, Marketing & Finance - CT7220..... 1 credit
Level 2: Sports and Entertainment Marketing I - CT7602 / II - CT7614 ..... 0.5/0.5
Level 3: Social Media Marketing - CT7607 / Advertising - CT7613 ..... 0.5/0.5
Level 4: Pract in Entrepreneurship - CT7612 / Career Prep I - CT7248 ..... 2 or 3
Level 5: Career Prep I - CT7248 / Career Prep II - CT7251 ..... 3 credits

▶ Dual Credit PTECH Business Management Pathway

Level 1: PTECH Foundations of Business Comm. & Tech. Dual - CT7222D... 1 credit
Level 2: PTECH Business Management Dual - CT7226D..... 1 credit
Level 3: PTECH Accounting I Dual - CT7305D ..... 1 credit
Level 4: PTECH Practicum in Business Mgmt Dual - CT7227D..... 2 credits

STEM ENDORSEMENT

STEM Cluster

JH Course Option: Fundamentals of Computer Science - CT7028

▶ Programming - Computer Science Pathway

Level 1: Computer Science I - 7808 / OnRamps - U7808..... 1 credit
Level 2: AP Computer Science A - 7810 / Computer Sci II - 7809 ..... 1 credit
Level 3: Coding (Comp Science II) - 7809 / Computer Science III - 7815.... 1 credit
Level 4: Practicum in Information Technology - CT7515..... 2 credits
Any Level: OnRamps..... 1 credit

PUBLIC SERVICE ENDORSEMENT

Education and Training Cluster

▶ On Level or Dual Credit Teaching & Coaching Pathway

Level 1: Principles of Education & Training - CT7240D..... 1 credit
Level 2: Child Development - CT7424 or Dual Credit - CT7424D..... 1 credit
Level 3: Instructional Practices - CT7242 or Dual Credit - CT7242D ..... 2 credits
Level 4: Pract in Education & Training I - CT7232 or Dual Credit - CT7232D
or Second Time Taken - 13014510..... 2 credits
Level 5: Pract in Education & Training + Extended Practicum in Education
and Training First Time Taken - 13014505 ..... 3 credits

Health Science Cluster

**It is HIGHLY recommended that Health Science students choose Anatomy and Physiology as a Science credit*
JH Course Option: Med Term - CT7033

▶ Dual Credit Emergency Medical Technician (EMT) Pathway

Level 1: Dual Credit Principles of Health Science - CT7339D..... 1 credit
Level 2: Dual Credit Health Science Theory - CT7332D..... 1 credit
Level 3: Dual Credit Practicum in Health Science I - CT7323D ..... 2 credits
Level 4: Advanced Practicum in Health Science II EMT - CT7343..... 3 credits

▶ Dual Credit Patient Care Technician (PCT) Pathway

Level 1: Dual Credit Principles of Health Science - CT7339D..... 1 credit
Level 2: Dual Credit Health Science Theory - CT7332D..... 1 credit
Level 3: Dual Credit Practicum in Health Science I - CT7323D ..... 2 credits
Level 4: Dual Credit Practicum in Health Science II - CT7334D..... 2 credits

Human Services Cluster

JH Course Option: Principles of Cosmetology - CT7049

▶ Barbering Pathway

Level 1: Introduction to Barbering - CT7439 ..... 1 credit
Level 2: Barbering I - CT7437..... 2 credits
Level 3: Barbering II - CT7438..... 2 credits
Level 4: Microbiology & Safety for Barbering - CT7910..... 1 credit

▶ Cosmetology Arts Pathway

**The Class of 2028 will be able to begin this Pathway starting their Junior Year*

Level 3: Cosmetology I + Cosmetology I Lab - CT7428 ..... 3 credits
Level 4: Cosmetology II + Cosmetology II Lab - CT7429..... 3 credits
Level 4: Microbiology & Safety for Cosmetology - CT7910..... 1 credit

BUSINESS & INDUSTRY OR STEM ENDORSEMENT

Engineering Cluster

JH Course Option: Principles of Applied Engineering - CT7028

▶ Engineering & Robotics Pathway

Level 1: Principles of Applied Engineering - CT7621..... 1 credit
Level 2: Engineering Design & Presentation - CT7622..... 1 credit
Level 3: Robotics I - CT7631..... 1 credit
Level 4: Robotics II - CT3050 ..... 1 credit
Level 5: Practicum in Engineering - CT### ..... 2 credits

▶ Drone Pathway

Level 1: Introduction to Aerospace and Aviation - CT7716 ..... 1 credit
Level 2: Introduction to Unmanned Aerial Vehicles - CT7711..... 1 credit
Level 3: Practicum in Aviation - CT7717 ..... 2 credits
Level 4: Capstone in Aviation - CT7718..... 1 credit

DALLAS COLLEGE RICHLAND

DUAL CREDIT PATHWAY OPTIONS:

- Associates of Arts, Business Admin and Management
- Associate Arts, Patient Care Technician
- Associate of Arts, Teaching and Coaching
- Level 1 Certificate, Health Professions, Patient Care

Students must complete at least 3 courses for 4 or more credits in the same pathway to be a CTE Completer. For more information visit **www.risd.org/cte**.

BERKNER HIGH SCHOOL AND STEM ACADEMY RAMS

UPDATED NOVEMBER 2026