

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 Svcs - 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	2 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

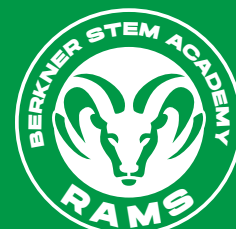


DUAL CREDIT PATHWAY OPTIONS:

- 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.



UPDATED JANUARY 2026