



Health and Bio Sciences Cluster



HEALTH AND BIO SCIENCES CAREER CLUSTER DESIGN

Health Science Pathway

CIP CODE 51.9999

APPROVED PATHWAY:

- Includes a minimum of three secondary-level credits.
- Includes a work-based element.
- Consist of a sequence:
 - Introductory-level course.
 - Technical-level course.
 - Application-level course.
- Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- Technical-level and Application-level courses receive.5 state weighted funding in an approved CTE pathway.

INTRODUCTORY LEVEL

Title	Code	Credit
* Introduction to Health Care	14000	0.5
Biology	03051	1
Chemistry	03101	1

TECHNICAL LEVEL

Title	Code	Credit
Nutrition and Wellness	19253	0.5
* Anatomy and Physiology	03053	1
📄 EMS First Responder	44050	0.5
Medical Terminology	14154	0.5
Health Information (HIT)	14157	1
AP Biology	03056	1
Health Care Research and Clinical Skills A	14254	0.5
Health Care Research and Clinical Skills B	36254	1

GENERAL HEALTH STRAND (PA, MED)

Title	Code	Credit
Fundamentals of Emergency Services	14055	0.5
Medical Interventions	14105	1

SPORTS MED/REHABILITATION STRAND (ATC, PT, OT)

Title	Code	Credit
📄 Physical Therapy	14060	1
📄 Care of Athletes	14062	0.5
📄 Sports Medicine I	14072	1

ALLIED HEALTH STRAND (Nursing, X-Ray, EMT, Lab Sciences)

Title	Code	Credit
Medical Imaging	14103	0.5
📄 Pharmacology	14253	1
📄 Emergency Medical Tech (EMT)	44060	1

APPLICATION LEVEL

Title	Code	Credit
📄 Certified Medication Aide	36156	0.5
📄 Certified Nursing Assistant	14997	0.5/1
Heath Care Work Experience	36992	1
Heath Care Work Experience	36993	2

GENERAL HEALTH STRAND (PA, MED)

Title	Code	Credit
📄 Phlebotomy Technician	14104	0.5

SPORTS MED/REHABILITATION STRAND (ATC, PT, OT)

Title	Code	Credit
📄 Sports Medicine II	14073	1

ALLIED HEALTH STRAND (Nursing, X-Ray, EMT, Lab Sciences)

Title	Code	Credit
📄 Phlebotomy Technician	14104	0.5
📄 Home Health Aide	36053	0.5
📄 Dental Assistant	36054	1
📄 Pharmacy Technician	36157	1
📄 # Emergency Medical Tech II (EMT II)	44065	1

* Required course for pathway approval.

Has a prerequisite Emergency Medical Tech (44060).

📄 Courses may require specialized teacher certification and/or offer professional certification.





HEALTH AND BIO SCIENCES CAREER CLUSTER DESIGN

Biomedical Pathway

CIP CODE 14.0501

APPROVED PATHWAY:

- Includes a minimum of three secondary-level credits.
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- Consist of a sequence:
 - Introductory-level course.
 - Technical-level course.
 - Application-level course.
- Supporting documentation includes:
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 - Certification.
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 - Program of Study.
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INTRODUCTORY LEVEL

Title	Code	Credit
Biology	03051/03052	1
Chemistry	03101	1
Computing Systems (8-9)	10002/60002	1
Computer Applications (8-9)	10004/60004	1

TECHNICAL LEVEL

Title	Code	Credit
Principles of Biomedical Science	14251	1
Medical Interventions	14105	1
* Human Body Systems	14102	1
* Anatomy and Physiology	03053	1
Robotics	21009	1
Pharmacology	14253	1
Food Science	19254	1
Agricultural Food Science	18305	1
AP Biology	03056	1

APPLICATION LEVEL

Title	Code	Credit
Biomedical Innovation	14255	1
● Bioengineering	21020	1
● Biotechnical Engineering	21014	1
Emerging Technologies	21053	1
Particular Topics in Engineering	21015	1
Biomedical Workplace Experience	14998	1

* Required course for pathway approval.

● Must choose **ONE** of these Application Level courses for pathway approval.



APPROVED PATHWAY:

1. Includes a minimum of three secondary-level credits.
2. Includes a work-based element.
3. Consist of a sequence:
 - Introductory-level course.
 - Technical-level course.
 - Application-level course.
4. Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

HEALTH AND BIO SCIENCES CAREER CLUSTER DESIGN

Biochemistry Pathway

CIP CODE 14.1401

INTRODUCTORY LEVEL

Title	Code	Credit
Environmental Science	03003	1
Chemistry	03101	1
Computing Systems (8-9)	10002/60002	1
Computer Applications (8-9)	10004/60004	1

TECHNICAL LEVEL

Title	Code	Credit
Biotechnology in Agriculture	18308	1
* Anatomy and Physiology	03053	1
AP Environmental Science	03207	1
Pharmacology	14253	1
Applied Biochemistry	03203	1
Plant and Soil Science	18058	1

APPLICATION LEVEL

Title	Code	Credit
Natural Resources Management	18504	1
● Bioengineering	21020	1
● Biotechnical Engineering	21014	1
Environmental Resources and Wildlife Science	37506	1
Emerging Technologies	21053	1
Biochemistry Workplace Experience	21048	1
Applications in Biotechnology in Agriculture	18320	1

* Required course for pathway approval.

● Must choose **ONE** of these Application Level courses for pathway approval.



HEALTH & BIO SCIENCES

JOB NOW - CAREER LATER



NOW

HIGH SCHOOL DIPLOMA & SHORT TO MODERATE-TERM ON-THE-JOB TRAINING

	MEDIAN ANNUAL WAGE
Home Health & Personal Care Aides	\$23,210
Medical Secretaries & Administrative Assistants	\$36,590
Pharmacy Technicians	\$36,630

NEXT

ASSOCIATE DEGREE

★ Radiologic Technologists & Technicians	\$59,320
★ Physical Therapist Assistants	\$59,820
★ Dental Hygienists	\$75,700

LATER

BACHELOR'S OR DOCTORAL/PROFESSIONAL DEGREE

★ Registered Nurses	\$61,790
★ Physical Therapists	\$88,570
★ Pharmacists	\$127,940

★ = HIGH DEMAND, HIGH WAGE



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Labor Market Information Services
401 SW Topeka Blvd.
Topeka, KS 66603
Phone: (785) 296-5000 Fax: (785) 296-5286

Visit our Website:
klic.dol.ks.gov
Contact Us:
KDOL.Laborstats@ks.gov

Sources: KDOL, Labor Market Information Services; 2022 Kansas High Demand Occupations & Occupational Employment and Wage Statistics (OEWS)



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