■ EDUQUEST EXCLUSIVE 8-PAGE MASTER GUIDE

Career Clusters & High School Stream Selection Blueprint

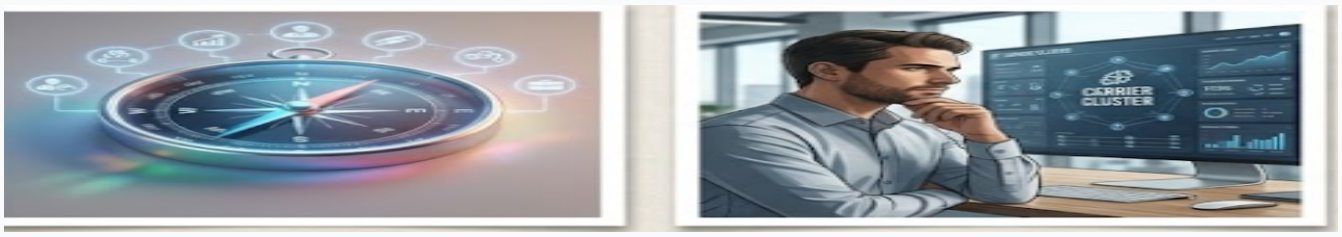
Comprehensive Guide to 16 Career Clusters, High School Stream Alignment (PCM/PCB/Commerce/Humanities) & Global Majors

1. Career Clusters & Stream Selection Overview

Choosing high school streams (PCM, PCB, Commerce, Humanities) and undergraduate majors should not be driven by peer pressure. The National Career Clusters framework organizes global careers into 16 distinct pathways.

- The Alignment Triad: Aptitude (Natural Cognitive Strengths) + Interest (Passionate Curiosity) + Market Demand (Global Industry Growth).
- Future-Proofing Careers: Navigating the impact of Artificial Intelligence, Automation, and Green Energy on future job markets.
- Global University Flexibility: How international universities allow multidisciplinary majors and flexible degree declarations.

Figure 1: Global Career Cluster Compass & Stream Alignment Matrix



■ **Career Discovery Rule**

Align your stream with your cognitive archetype to build a strong high school portfolio.

Module 2: The 16 National Career Clusters Matrix

1. Career Cluster Pathways

Cluster Domain	Key Industry Sub-Fields	Global Undergraduate Degrees
STEM & Computing	AI, Software, Aerospace, Robotics, CleanTech	B.S. Computer Science, Mechanical Eng, Data Science
Health Sciences	Biomedical, Clinical Medicine, Genomics, Public Health	MBBS, B.S. Neuroscience, Bioengineering
Business & Finance	Investment Banking, Fintech, Supply Chain, Consulting	B.S. Economics, Finance, BBA, Management
Law & Public Policy	Corporate Law, International Relations, Governance	LLB, B.A. Political Science, PPE (Philosophy, Politics & Econ)
Arts & Communication	UX/UI Design, Digital Media, Journalism, Animation	B.Des, B.A. Media Studies, Product Design
Architecture & Planning	Urban Design, Sustainable Architecture, Civil Eng	B.Arch, B.S. Sustainable Development

Module 3: High School Stream Selection Matrix

1. Aligning High School Streams with Global Degrees

Stream Choice	Core Subject Combinations	Unlocked Global Majors
PCM + CS / Econ	Physics, Chemistry, Math, CS/Econ	Engineering, CS, Pure Mathematics, Economics, Architecture
PCB + Math / Biotech	Physics, Chemistry, Biology, Math	Medicine (MBBS/MD), Biomedical Sciences, Biotechnology, Genetics
Commerce with Math	Accounts, Business Studies, Econ, Math	Finance, Actuarial Science, Business Analytics, Economics, Law
Humanities / Liberal Arts	Econ, History, Political Science, Psychology	Law, International Relations, Journalism, Public Policy, Psychology

Module 4: Emerging Multidisciplinary Careers (2026–2035)

1. High-Growth Hybrid Career Domains

- Computational Biology & Genomics: Merging Computer Science and Genetics to design targeted drug therapies and CRISPR treatments.
- Fintech & Algorithmic Trading: Combining Advanced Mathematics, Machine Learning, and Corporate Finance.
- AI Ethics & Tech Policy: Integrating Law, Philosophy, and Software Engineering to regulate artificial intelligence.
- Climate Engineering & Green Finance: Integrating Environmental Science, Chemistry, and Sustainable Investment Banking.

Module 5: Personality & Psychometric Assessment Framework

1. The Holland Code (RIASEC) Model

- Realistic (Doers): Hands-on, mechanical, physical systems (Engineering, Architecture, Robotics).
- Investigative (Thinkers): Analytical, abstract research, scientific theories (Data Science, Medical Research).
- Artistic (Creators): Expressive, design-driven, innovative (UX/UI Design, Creative Writing, Media).
- Social (Helpers): Teaching, counseling, healthcare, public service (Medicine, Psychology, Education).
- Enterprising (Persuaders): Leadership, business ventures, negotiation (Consulting, Corporate Law, Management).
- Conventional (Organizers): Data structure, accounting, financial modeling (Finance, Actuarial Science).

Module 6: University Major Mapping & Global Requirements

1. Prerequisites for Top Global Universities

Degree Field	US College Prerequisites	UK / Singapore Direct Entry Prerequisites
Computer Science	Calculus, AP Physics C, AP CS A	A-Level / IB HL Mathematics + Further Maths or Physics
Medicine	Pre-Med track (Bio + Chem in college)	A-Level Chemistry + Biology + UCAT / BMAT / NEET
Economics	Calculus, AP Micro/Macro Economics	A-Level / IB HL Mathematics (A* required for Oxbridge/LSE)
Mechanical Eng	AP Physics C, AP Calculus BC	A-Level / IB HL Mathematics + Physics (A* required)

Module 7: Career Decision Matrix & Action Plan

1. Stream Selection Evaluation Worksheet

Score each prospective stream from 1 to 10 across these criteria to make an objective decision:

Stream Option	Academic Enjoyment (1-10)	Past Performance (1-10)	Global Career Options (1-10)	Total Fit Score
PCM + Computer Science	9	8	10	27 / 30 (Top Match)
PCM + Economics	8	8	9	25 / 30
PCB + Mathematics	7	8	8	23 / 30
Commerce with Math	7	7	8	22 / 30
Humanities with Math	6	7	7	20 / 30

Module 8: Student Self-Assessment & EduPath Mentorship

1. Final Decision Checklist

- Have you validated your stream choice against target university prerequisites? (Yes / No)
- Have you completed an EduPath psychometric career assessment? (Yes / No)
- Are you selecting subjects based on your genuine strengths rather than peer choices? (Yes / No)

■ EduQuest EduPath Discovery

EduQuest has guided over 10,000 students to their ideal high school streams and university majors through psychometric analytics.

■ Book Your 1-on-1 Strategy & Diagnostic Session

Book a 1-on-1 Stream Selection & Career Cluster Strategy Session with EduQuest Counselors.
Hotline / WhatsApp: +91 99580 41888 | **Email:** contact@eduquest.org.in | **Web:** www.eduquest.org.in