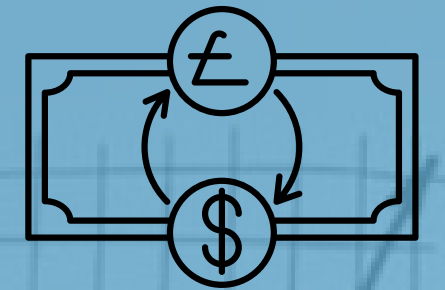# ECONOMICS

SKILLS NEEDED

- thinking logically and critically.
- the ability to simplify complex issues and extract the relevant pieces of information.
- data analysis.
- written and spoken communication.
- problem-solving using your initiative.
- time management.
- commercial and cultural awareness.
- teamwork and interpersonal skills.

CAREER PATHS

- Economist
- Financial risk analyst
- Data analyst
- Financial planner
- Accountant
- Economic researcher
- Financial consultant
- Investment analyst

TOP UNIVERSITIES

- Harvard University
- Stanford University
- London School of Economics and Political Science
- Erasmus University Rotterdam
- Copenhagen Business School
- University of Toronto
- INSEAD Business School

SUBJECTS NEEDED

- Mathematics Analysis & Approaches HL or SL or Applications & Interpretation HL
- Economics HL

COMPUTER SCIENCE

SKILLS NEEDED

- Mathematical Thinking
- Problem Solving and Logical Reasoning
- Analytical Skills
- Creativity
- Project Management
- Technical Writing

CAREER PATHS

- Computer and Information Systems Manager
- CI Research Scientist
- Data Scientist
- Software Developer
- Information Security Analyst
- Database Administrator
- IT Consultant
- Nanotechnologist

TOP UNIVERSITIES

- MIT
- Stanford University
- Carnegie Mellon University
- National University of Singapore
- University of California-Berkeley
- University of Oxford
- Harvard University
- University of Cambridge
- EPFL
- ETH Zurich - SFIT

SUBJECTS NEEDED

- AA HL Math, Minimum 6
- Physics HL/SL (Engineer Courses)
- Minimum of 32 overall IB score
- Admissions Tests: MAT, CSAT, TMUA

ENVIRONMENTAL SCIENCE

SKILLS NEEDED

- Innovative Thinking
- Commercial Awareness
- Collaborative Skills
- Lab and Fieldwork Skills
- Writing Skills
- Observational Skills
- Critical Thinking
- Statistics

CAREER PATHS

- Environmental Scientist
- Conservation Scientist
- Environmental Manager
- Environmental Consultant
- Hydrologist
- Environmental
- Engineer (Math AA HL)

TOP UNIVERSITIES

- University of Alberta
- Stanford University
- Yale University
- Harvard University
- Cornell University
- University of Toronto
- University of British Columbia
- University of Queensland
- University of California
- University of Oxford
- University of Cambridge
- National University of Singapore
- ETH Zurich
- MIT

SUBJECTS NEEDED

- AA SL Math Minimum 6
- Geography SL/HL (beneficial)
- Any 2 out of the 3 main sciences (Biology, Chemistry or Physics) is recommended however ESS is suitable **depending** on the college.

MEDICINE

SUBJECTS NEEDED

Biology and Chemistry HL L6
Math AI HL or AA SL
36 points overall excluding core subjects

Specific requirements
US- undergraduate degree, MCAT test
UK- UCAT
Europe- Physics in DP or as a separate entry requirement course.

SKILLS NEEDED

- Strong scientific Abilities
- Commitment and tenacity
- Emotional Intelligence (Empathy)
- Communication skills
- Ability to work in a team
- Leadership potential
- Stress Management
- Service Orientation
- Adaptability
- Problem solving skills
- Attention to details
- Decision-making skills

CAREER PATHS

Medicine
Surgeon
Public Health Worker
Health Journalist
Medical Teacher
Clinical Forensic Medical Examiner
Sports and Exercise Medicine
Family doctor
Dermatologist
Radiology
Anaesthegiology

TOP UNIVERSITIES
- Harvard University
- University of Oxford
- University of Cambridge
- Stanford University
- Johns Hopkins University
- Karolinska Institutet
- University of California

MEDIA JOURNALISM

SUBJECTS NEEDED

- Language and Lit HL
- Language B HL
- History/Psychology/ Philosophy HL
- Environmental Systems and Societies SL
- Media Studies HL/SL

SKILLS NEEDED

- Interviewing
- Reporting
- Ethics
- Writing
- Digital Journalism Skills
- Creative
- Organised
- Problem Solver

TOP UNIVERSITIES

- University of Amsterdam
- University of Southern California,
- University of Texas at Austin
- Stanford University
- New York University
- University of Pennsylvania
- University of California

CAREER PATHS

- Advertising
- Promotions Writers and Authors
- Editors
- Film and Video Editors
- Camera Operator

LAW

SUBJECTS NEEDED

- English (preferably at HL)
- Social Studies Courses (beneficial)
- History (beneficial)
- Additional Language (increases job opportunities)
- Business (beneficial if interested in Business Law)

Colleges prefer for students to have taken essay-based subjects and subjects that improve their communication skills and knowledge.

SKILLS NEEDED

- Creative Problem Solving
- Written Communication Skills
- Verbal Communication Skills
- Understanding People
- Attention to Detail
- Research Skills
- Organized
- Advocacy
- Negotiating
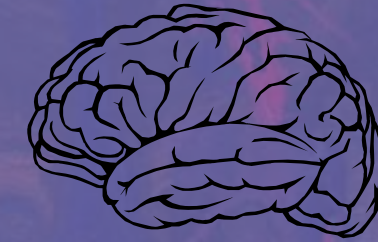- Interviewing
- Resilience

CAREER PATHS

- Lawyer
- Legal Advisor
- Legal Analyst
- Legal Journalist
- Politics
- Human Resources
- Paralegal
- Law Enforcement
- Consultant

TOP UNIVERSITIES

- Harvard University - University of Oxford - University of Cambridge - Yale University - Stanford University - London School of Economics and Political Science - Columbia University - New York University - University of California, Berkeley - National University of Singapore

PSYCHOLOGY

SUBJECTS NEEDED

- Psychology / Sociology HL
- English (preferably HL)
- Math Analysis and Interpretation (SL or HL)
- Biology (SL or HL)

Psychology is heavily based on essay-based subjects and universities prefer these at HL level.

SKILLS NEEDED

- Essay-writing skills
- Critical thinking and analytical skills
- Abstract reasoning Communication and interpersonal skills
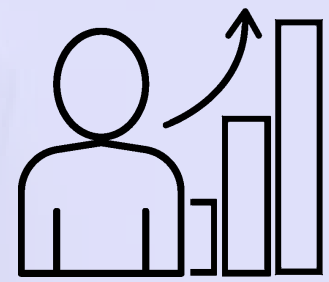- Research skills
- Numerical skills (statistics)
- Problem solving

Universities also look at your experiences, make sure to have volunteering and other social related experiences

TOP UNIVERSITIES

- Stanford University.
- Harvard University.
- University of Oxford
- University of Cambridge
- University of California - Berkeley
- University of California - Los Angeles.
- University of Michigan - Ann Arbor.
- Yale University.
- University of Illinois -Urbana-Champaign.
- Massachusetts Institute of Technology
- University College London

CAREER PATHS

- Psychologist - Psychotherapist - Social worker - Counselor
- Educational psychologist - Human resource manager
- Teacher - Research roles

BUSINESS MANAGEMENT

TOP UNIVERSITIES

- Upenn (Wharton)
- Northwestern (Kellog)
- Kelley School of Business
- London School of Economics (LSE)
- London Business School
- MIT Sloan
- NYU Stern
- Stanford University

SKILLS NEEDED

- Data Analysis
- Accounting
- Negotiation
- Leadership
- Communication
- Problem solving
- Time management
- Marketing

CAREER PATHS

- Business advisor
- Data analyst
- Project manager
- External auditor
- Sales executive
- Human Resource officer
- Hotel manager
- Marketing director
- Entrepreneur
- Accountant

SUBJECTS NEEDED

- Business & Management HL
- Math AA SL or IA HL
- Economics (beneficial)
- Psychology SL (beneficial)

ARCHITECTURE

SKILLS NEEDED

- Designing Skills
- Communication Skills
- Engineering Skills
- Numerical Skills
- Software Modeling
- Client Management
- Leadership Skills
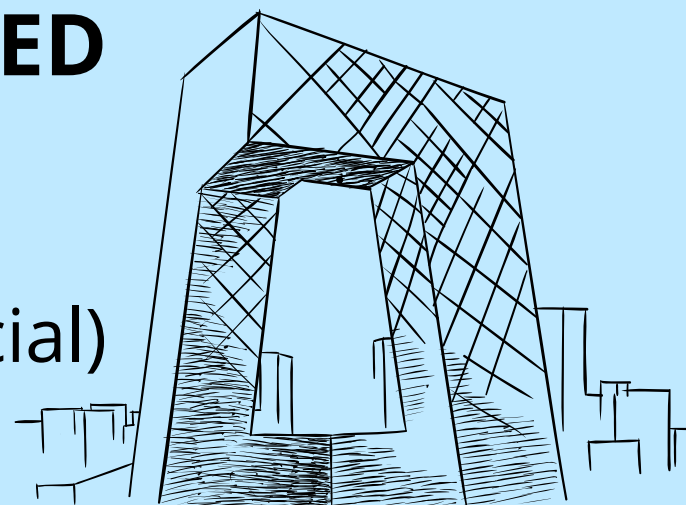- Attention to Details

CAREER PATHS

- Landscape Architect
- Interior and Spatial Designer
- Structural Engineer
- Urban Planner
- Construction Manager
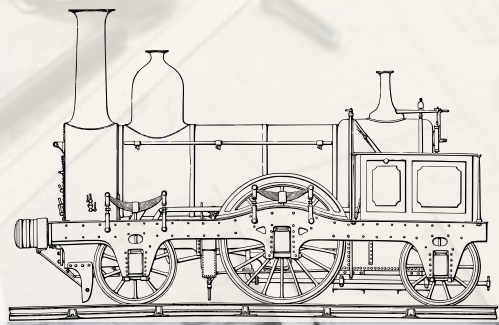- Industrial Designer

TOP UNIVERSITIES

- Newcastle University
- University of Arts London
- Manchester School of Architecture
- University of Bath
- MIT
- Cardiff University
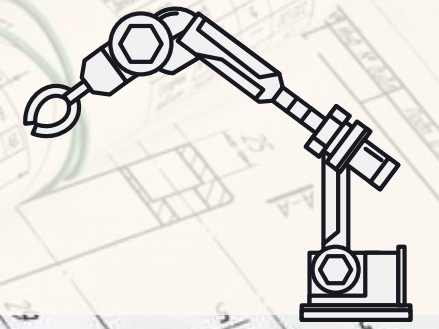- University of Sheffield

SUBJECTS NEEDED

- Math AA HL/SL
- Physics HL/SL
- Design Technology HL/SL (beneficial)
- Visual Arts HL/SL (beneficial)

ENGINEERING

SKILLS NEEDED

- Problem solving
- Attention to detail
- Pressure management
- Creativity
- Leadership
- Mathematical skills
- Structural analysis
- Data analysis
- Continuous learning

CAREER PATHS

Electrical Engineer
Aeronautical Engineer
Mechanical Engineer
Marine Engineer
Civil Engineer
Motorsport Engineer
Nuclear Engineer
Computer Engineer
Environmental Engineer

TOP UNIVERSITIES

- MIT
- Stanford
- Cambridge University
- ETH Zurich
- UC Berkeley
- Oxford University
- Nanyang Technological University
- Georgia Tech
- Caltech

SUBJECTS NEEDED

- Physics HL
- Math AA HL
- Chemistry HL/SL (HL preferred)
- Computer Science (beneficial)
- Design Technology (beneficial)