



Minerals and Energy Academy

Southern River College is a recognised Resource School through the Chambers of Minerals and Energy. We offer an array of pathways to suit the aspirations and focus of every student.

Are you academic, enjoy problem solving and thinking creatively? Try out for Pathway One. Are you more hands on enjoy working in around technology and computers? Then pathway two may be for you.

Pathway One and Two are available from Year 7 via application, academic testing and technology aptitude testing. **Pathway Three** is open from Year 10 via an application and interview process.

Pathway One ENTRY YR 7

Professional

Academic Extension

University

Students in this pathway focus on Academic Studies and Extension in Maths, Science, Society and Environment. They are exposed to the Curtin University School of Mines and Engineering Faculty for extension programs, camps and mentoring.

Pathway Two ENTRY YR 7

Para professional

Technology

University/TAFE /Industry

Practical technologies through Creativity, Practical Design and Information skills. Students will explore authentic projects that explore the energy and resource sector.

Pathway Three

ENTRY YR 10

Trades and Operator

Work Readiness

Apprenticeship Pathway

TAFE and Industry

Trades, Traineeships, Apprenticeships and/or Work. Work experience, traineeships and skills linked to their aspirations will play a vital part in this pathway.

Pathway 1

ACADEMIC

Enrichment

University

High Academic Performance
Creative Thinker
Problem Solving
Communication
Research

Common professional jobs in the resources sector include engineer, geologist, environmentalist, marketing, human resources, chemist, metallurgist, environmental science, accountant and many more.

Pathway 2

TECHNOLOGY

Extension

University, TAFE, Industry

Technology Focus
Analytical Skills
Computer Skills
Robotics and Applications
Web Design and Animation
Application

Technical jobs in the resources sector include surveying associate, business administration, logistics, IT support and many more.

Pathway 3

TRADES and OPERATOR

Experience

TAFE and Work Focus

Trade A tradesperson is a skilled manual or 'hands on' worker. Common trades include electrician, boiler maker, diesel fitter, driller and many more.

Operator A skilled operator usually works 'hands on' with a particular machine or range of machines. Skilled operator jobs in the resources sector include truck driver, plant operator, minerals or gas plant operator, welder and many more.

Southern River College Energy and Minerals Academy

Real career pathways, real opportunities, real experiences for our stu-

Southern River College supports the studies of minerals and energy, integrated through our teaching and learning programs. We are committed to creating a college that leads to greater understanding of Minerals and Energy and the resource sector. Our programs align to the National Curriculum, Courses of Study and Skilling WA Plan to help increase participation of young people in the mining and resource sector. Our students have exposure and opportunities beyond the normal curriculum to engage in the minerals and energy industry.

Opportunities for our students:

1. Curriculum pathways that are associated with teaching and learning linked to the energy and resource sector.

2. Partnerships that benefit our student's career and curriculum aspirations that is of mutual benefit for industry and our students.

3. Learning opportunities for students in Universities and TAFE and Industry—Technology, Engineering, Sustainability, Eco-Systems, Drilling, Electricians, Maintenance, Geology, Robotics, Hospitality, Geophysics...



The Energy and Minerals Learning Environment

High Technology Learning Environments
Camps through Curtin School of Mines
Workshops with Leaders in Mining
Exposure to Industry Speakers
University Mentors, Industry tours

Science and Maths Enrichment
Exploration and Discovery
New Technologies
Sustainability and Eco Systems
Practical application to learning

Partnerships that help extend our students

- Chamber of Minerals and Energy
- Curtin University School of Mines
- Curtin University Engineering, Science and Mathematics
- Polytechnics West—Energy and Mineral Faculty
- Apple and X-Cite Logic
- TOLL IPEC—Transport and Logistics
- GETIL (Gosnells Education Training and Industry Links)
- ATC (Australian Trades College)

Application Form to Southern River College Minerals and Energy Academy Pathways

**Please return to Southern River College.
Students will notified by mail of testing times and interviews.**

Family Details

Family Surname:

Home Address:

Suburb/Town:

Post Code

Home Email:

Home Telephone:

Mobile Telephone:

Student Details

Student Surname:

First Name:

Second Name:

Preferred Name:

Gender:

Birth date:

Country of Birth:

Nationality:

Current School Attending:

Other Information:

**Select
Pathway**



Pathway One
Professional
Academic Extension
UNIVERSITY

Pathway Two
Para Professional
Technologies
University via Portfolio
TAFE/INDUSTRY

Pathway Three
TRADES/ OPERATOR
Work Readiness
Apprenticeship Pathway
TAFE and/or Industry

SECTION D: Select the Pathway - Please Tick

Pathway One

(Year 7) **Academic**

Pathway Two

(Year 7) **Technology**

Pathway Three (Year 10) **Work Readiness and Apprenticeships**

Please write a brief statement as to why you would like to be considered for in the Minerals and Energy Academy programs.

Curriculum Links

Our Curriculum and Pathway model is a whole school approach to teaching and learning through inquiry based learning and problem solving in a real context within the normal curriculum. The concepts and programs on offer are accessible to our students at varying levels from Year 7 to 12.

Our students will understand, explore and learn through enrichment and extension, about the world they live in and its relationship to careers , energy and minerals and the resource sector.

The opportunity for students to participate in Academic Extension, Technologies and/or Trades Pathways with the theme of energy and minerals will help to enrich their passions and interests beyond the normal curriculum , supporting their individual focus. Students are encouraged participate in pathways that may interest and challenge their abilities.

Pathway One Year 7 –12

Professional **Academic Extension**
University

Focus: Maths, Science, Society and Environment relative to how we use energy and mining sustainability and renewable energies.

Pathway Two Year 7—12

Para professional **Technologies**
University/TAFE/Industry

Focus: Practical technologies through Creativity, Practical Design and Information skills. Students will explore authentic projects that explore the energy and resource sector.

Pathway Three 10-12

Trades and Operator
Work Readiness
Apprenticeship Pathway

Focus: Trades, Traineeships, Apprenticeships linked to authentic learning project based opportunities. Students will focus on the needs of industry and their community.

Mathematics

Mathematics explores energy and mining in relation to trigonometry, algebra, space, calculus and geometry. Students learn through inquiry and problem based inquiry systems.

Design Technologies

Practical applications in the use of design related to resources and energy based projects. Student explore construction and inventive design in metals, autos and home workshop.

Literacy

Students build their capacity in literacy through reading, writing and communication skills applied to real contexts and industry application.

Society and Environment

Geological focus on energy and minerals and resources through contexts in Geography and Economics.

Information Technologies

Applications in the use of systems and information technologies related to resources and energy based projects. Students explore logistics, data, web and systems in the virtual world.

Numeracy

Practical applications in the use of number, space and measurement related to resources industry and school based projects.

Science

Explores mining, renewal energies, resources and the environment. Students undertake investigations through understandings in chemistry, physics and the biological world.

Creative Technologies

Students explore technology to help solve problems through creative and critical thinking. Focus is on sustainability, media, design methodology and the human factor.

Careers and Enterprise

Individual pathways are identified for students as they learn about careers and work in relation to the mining and resources sector.

Work Readiness

Students explore attributes in relation to safety, employability and life skills in an adult world.

Extra Curricular...

Curtin School of Mines camps
Mentors
Engineering mentors
Exposure to lead industry people
Women in mining Conferences
Hands on Workshops and simulations in Resources and Energy.
Site visits—Open Cut
Interactive Curriculum
Guest Speaker Program
Study and Research Skills



Southern River College
Respect and Understanding

Project Based Learning

Authentic learning projects that build students skills and community service understandings. Certification and recognition of achievements are celebrated.

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