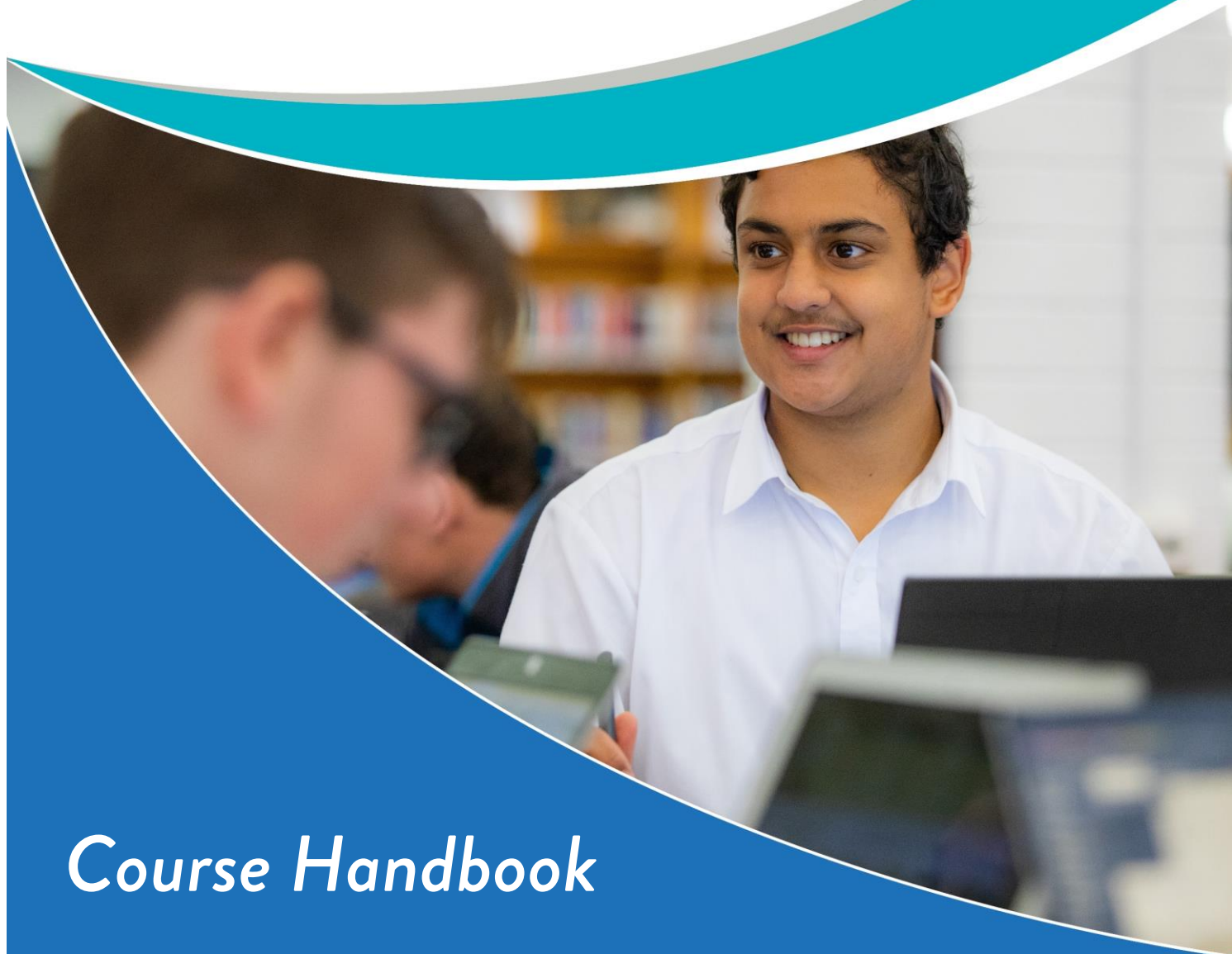




**FREMANTLE**  
COLLEGE



# *Course Handbook*

## *Specialist and Academy Programs*

*Year 7 to 10, 2024*



## Introduction

This handbook contains Specialist and Academy Program information for students who will be in Years 7 to 10 in 2024. These courses are offered to students in addition to the general electives. To enrol in these courses students must have applied for a position within the program and completed the required selection process. Students entering Year 7 will complete the selection process prior to starting at Fremantle College. Internal Applications for students currently enrolled in Years 7 to 10 may be submitted throughout the school year and selection processes will be conducted at the end of each semester, based on availability within the program.

For Specialist and Academy programs the charges are to be paid by the end of Term 1 each year. If payment is not arranged or parents/carers have not responded to three requests for payment, the student will be timetabled into an alternative program for the next semester.

Good partnerships between teachers, parents and students are essential to your child's success. Good communication and feedback are also important. We are using technology to improve communication to parents and students this year. These initiatives include:

College Website – <https://fremantlecollege.wa.edu.au>

Facebook® and Instagram—Fremantle College has an official Facebook and Instagram Page. These will be used as a tool to communicate with parents and the broader community about what is happening in our school. You will be regularly updated about all the great things that happen in our College. Be sure to like our page and subscribe to the notifications.

Compass is our school management system that allows parents and carers to access up-to-date and meaningful information about the school and your child's progress. Compass includes many different features, including the ability to monitor your child's attendance, communicate with your child's teacher, view your child's timetable, monitor your child's homework and assessment tasks, pay and provide consent for events.

ConnectforStudents—Connect is a portal available to teachers and students. Students can log into Connect using their usual login and password. They can communicate with teachers, save files (assignments, notes etc.), access resources that the teacher has made available to the class, and monitor their assessment in each class. Students will also receive an email account linked to Connect once they begin with Fremantle College.

ConnectforParents—When your registration for Connect for Parents is processed at the start of the school year in 2024, you will be able to see your child's timetable, attendance records for each class, and assessment progress in each class. Connect for Parents will also enable you to communicate with teachers via email. Be sure you download the Connect Now app for your smartphone and tablet.

Email - We have been using email for some time in an attempt to reduce paper usage and to speed up communications. Parents are encouraged to provide and update the school with their most current email address so that you do not miss out on important information.

SMSText messaging—We will continue to send text messages to parents regarding student absenteeism, and on occasion, for important news. Please ensure we have your current mobile phone number and update the school with new numbers for these key communications.

## SPECIALIST MARINE STUDIES PROGRAM

YEARS 7, 8	\$500 full year - 4 periods of Science with Marine context (or Gifted & Talented Science) and 2 periods of PE Marine
Year 9	\$500 full year - 4 periods of Science with Marine context (or Gifted & Talented Science), 2 periods of PE Marine and optional 2 periods of Marine Science Elective (one Semester)
YEAR 10	\$500 full year - 4 periods of PE Marine

Welcome to the Specialist Marine Studies Program at Fremantle College. This unique program is designed for students in Years 7 to 10, providing an exciting marine perspective on the Western Australian Science Curriculum. Throughout the course, students will explore Marine Science and conservation through hands-on, student-centred learning, critical thinking strategies, and an integrated STEM approach.

In Years 7 and 8, students begin their marine journey by studying ocean chemistry, properties, and its effects on marine life. They will gain a solid understanding of physical concepts like density, buoyancy, and pressure, particularly relevant to diving and snorkelling. Marine taxonomy is introduced as they explore marine vertebrates and invertebrates in relation to their environment. Engaging STEM projects, such as designing ocean cleaning devices and creating buoyant plankton models, will support and enhance their learning experience.

Year 9 marks an exciting milestone as students embark on a marine elective. They will have the opportunity to delve deeper into marine science with a focus on Biology, Chemistry, and Physics. Topics will include ocean acidification and its impact on marine ecosystems, ocean currents like the Leeuwin current in a Western Australian context, and the diversity of marine life along the West Australian coast. Additionally, students will engage in practical skills, such as underwater surveys and engineering portable devices to observe and measure fish assemblages and the importance of artificial reefs.

As our students progress into Year 10, they gain hands-on experience with various technologies, including data loggers and environmental monitoring equipment from Murdoch University. This real-world application allows them to assess the health of marine habitats in Cockburn Sound and Coral Bay.

Throughout the program, students will become environmentally aware, critical thinkers, problem solvers, and effective team players. The course not only prepares our students for a range of marine-based science and engineering pathways, but also nurtures their passion for marine conservation and related industries.

Year 7 and Year 8 students will have PE Marine in place of General PE, immersing them in marine-related physical education. Exciting excursions and incursions will complement their learning, enhancing their curiosity and knowledge of the marine world.

At Fremantle College, we are committed to providing a comprehensive marine education that prepares students for a future filled with possibilities in marine-based industries. We look forward to nurturing your child's interest in marine science and conservation as they grow and learn in our Specialist Marine Studies Program.

PE Marine replaces General PE.

Selection process includes an interview, review of student academic achievement and minimum Level 8 swimming competency.

## SPECIALIST MARINE STUDIES PROGRAM (Continued)



### Practical components

#### YEAR 7

- Marine water experiments
- STEM year 7 plastic project
- Impact plastics in our ocean
- Physics buoyancy, density and pressure
- Physics exploring forces in marine world
- Marine taxonomy flora and fauna
- Marine dangerous creatures
- Marine classification
- Coastal plant classification and dune systems
- Coastal tree planting excursion
- Excursion AQWA and department of fisheries
- Water safety and awareness
- Stroke development
- Basic snorkel skills
- Open water skills
- Rottneest Snorkel Day

#### YEAR 8

- Science Inquiry Flatback turtle populations
- Comparing fish systems compared to human digestive systems
- Global circulation and thermohaline circulation in the ocean.
- Ocean Bathymetry and hydrothermal vents.
- Marine and maritime museum excursion
- Skin Diver Award
- Shipwreck snorkelling
- Species identification & recording
- Beach fitness
- Bodyboarding
- Camp – South West WA



## YEAR 9

Paddling certification

Bronze Star

Stand Up Paddle boards

Advanced snorkelling skills

Marine and underwater survey skills

Surfing

Camp– Rottnest Island

### Year 9 Elective

Non-invasive techniques of underwater survey  
BRUV and video analysis

Shipwrecks and artificial reefs

Coastal engineering

Physical Marine experiments

Ocean Currents heat transfer

Ocean Acidification and the impact of climate  
change on Coral Reefs.

Marine excursion Omeo Wreck Survey

Murdoch University – Marine Science careers.

## YEAR 10

PADI Open Water Diver

Recreational Skippers Ticket

Surfing

Fishing

Kayaking

Camp – Ningaloo



Extra-curricular excursions include:

Maritime Museum, Shipwrecks Gallery, Rottnest Double Boat Dive, surf club, swim club, fitness sessions, AQWA, Leeuwin Sail, College boat.

## SPECIALIST CONTEMPORARY MUSIC PROGRAM

### YEAR 7 – 10 \$300 full year (4 periods a week)

Music provides a dynamic, enriched curriculum that develops and nurtures students' creative potential by exploring music as well as composing, arranging, recording, and performing. A variety of music technologies are embedded throughout the program, enriching learning experiences in genuine contemporary music making.

#### YEAR 7

Focus on building a solid foundation of instrumental and ensemble skills. Practical performance-based workshops anchor musical development in experiential learning.

Specialist Music Students in Year 7 will not be able to study Visual Arts or Media Arts as an elective, due to SCSA requirements and timetable restrictions. Media Arts will, however, be embedded in the Music Program. Students will also not be able to study LOTE (Italian).

#### YEAR 8

Emphasis is on the practical application of musical understandings in performances and ensembles. Students explore the early roots and influences of contemporary music through composition and performance.

Specialist Music Students in Year 8 will not be able to study Visual Arts or Media Arts as an elective, due to SCSA requirements and timetable restrictions. Media Arts will, however, be embedded in the Music Program. Students will also not be able to study LOTE (Italian).

#### YEAR 9

Development of an in-depth, practical understanding of harmony and theory. Students will apply that understanding to achieve more insightful musical compositions and performances.

#### YEAR 10

Students develop a more sophisticated, independent application of musical understanding in individual and band performance settings as preparation for the senior school music course. Students use industry standard, digital recording equipment and software to make recordings.

**Selection process includes audition of prepared pieces, interview, and review of student academic achievement.**



## SPECIALIST INFORMATION, COMMUNICATION AND TECHNOLOGY (ICT)

**YEARS 7, 8, 9 and 10 \$150 full year (2 periods a week)**

The Specialist ICT Program offers students an opportunity to engage in a specially designed curriculum that works to the 21st century learner and enhances your child's success in their future careers. Drawing upon the principles of STEM Learning our students solve real-world issues through exploration and investigation in a project-based learning environment.

The ICT Specialist course delivers an enriched Digital Technologies curriculum, introducing students to various areas of ICT such as software engineering, hardware & robotics, multimedia design, web development, industrial design, CAD, video game design and an opportunity to explore the latest innovations in the technology industry.

ICT Specialist Students have the opportunity to attend the Fremantle College Sydney/Canberra Tour. The tour has a strong science and technology focus visiting exciting venues such as the Canberra Deep Space Centre, Questacon and the CSIRO Discovery Centre. Tour runs every two years – students attend in either year 9 or 10.

**Selection process includes an interview, presentation of an IT project and review of student academic achievement.**



## AFL ACADEMY

**YEARS 7 to 9 - Male and Female \$50 full year (2 periods a week Year 7-9)**

**YEAR 10 – Male and Female \$100 full year (4 periods a week Year 10)**

In partnership with the Stephen Michael Foundation and the South Fremantle Football Club, the Fremantle College AFL Academy provides a unique opportunity for male and female students to embark on a football growth and personal development journey.

Based in the heartland of South Fremantle, the Fremantle College AFL Academy focuses on providing a holistic learning experience for its members, targeting intense skill development and game play analysis and application. The Academy aims to improve its members with knowledge of the game and develop clear pathways for continued involvement in football beyond their schooling.



This program gives our students opportunities to represent the College in a number of competitions throughout the year. These competitions include the Eagles School Boys Cup and the Fremantle Dockers School Girls Cup and there will be further opportunities to compete in one day carnivals throughout the year. These competitions provide our students with the platform to apply the key learning in a variety of competitive contexts.

The Fremantle College AFL Academy is aligned with the South Fremantle Football Club, and Academy members are provided with a learning environment that reflects the values and practices of one of Western Australia's proudest sporting clubs.

Through the college's partnership with the Stephen Michael Foundation, our Academy students are provided with a carefully constructed program that addresses:

- Leadership
- Decision making
- Nutrition
- Resilience
- Alcohol and drugs
- Relationships and respect
- Aboriginal art and culture

The members of our AFL Academy are provided with opportunities through the Stephen Michael Foundation to engage with the wider community, including with schools in remote regions of Western Australia, to act as ambassadors of the program and the game of football. As the only metropolitan school partnered with the Stephen Michael Foundation, we are offered a unique opportunity to expose our students to football experiences unlike any other school in Perth.

Year 7, Year 8 and Year 10 AFL will replace General PE, in Year 9 students will be able to elect a General PE class as well.

Selection process includes practical trial and review of student academic achievement.

