MATHEMATICS – 2 UNIT

The selection of a Mathematics Course for Year 11 has a large influence on a student's future study options. MFIS may offer up to 4 courses of study in Mathematics for the Higher School Certificate as approved by the Board of Senior School Studies.

1. Mathematics (formerly known as 2 Unit Mathematics)
2. General Mathematics - 2 Unit
3. Mathematics Extension 1
4. Mathematics Extension 2

When deciding which course to undertake, it is important to consider the following points:

- level of study in Years 9 and 10
- level of achievement in Years 9 and 10
- time available to fulfil the requirements for a particular course
- level required for further studies, if desired

MATHEMATICS COURSE – 2 UNIT

The content and depth of treatment of this course indicate that it is intended for students who have completed Year 10 Mathematics Course 5.3 and demonstrated outstanding competence in all the skills included in that course.

The 2 Unit course is intended to give these students an understanding of and competence in some further aspects of Mathematics, which are applicable to the real world.

The course has general educational merit and is also useful for concurrent studies in science and commerce. It is a sufficient basis for further studies in Mathematics as a minor discipline at tertiary level in support of courses such as the life sciences or commerce. Students who require substantial Mathematics at a tertiary level supporting the physical sciences, computer science or engineering should undertake the Preliminary and HSC Extension 1course.

MATHEMATICS EXTENSION 1

This course is studied over both the Preliminary and the HSC Year, i.e. during Year 11 and Year 12. Students cannot pick up Extension Mathematics in Year 12 without having done it in Year 11.

The content of this course, which includes the whole of the 2 Unit course and its depth of treatment, indicate that it is intended for students who have demonstrated a mastery of the skills included in the Year 10 Mathematics 5.3 course and who are interested in the study of further skills and ideas in Mathematics.

The extension course is intended to give these students a thorough understanding of and competence in aspects of Mathematics including many which are applicable to the real world.

The course has general educational merit and is a recommended minimum basis for further studies in Mathematics as a major discipline at a tertiary level, and for the study of Mathematics in support of the physical and engineering sciences.

MATHEMATICS EXTENSION 2

In this class we have some extremely enthusiastic students who consistently produce work of a high standard. The course offers a suitable preparation for study of mathematics at tertiary level, as well as a deeper and more extensive treatment of certain topics than is offered in other Mathematics courses. It represents a distinctly high level in school mathematics involving the development of considerable manipulative skill and a high degree of understanding of the fundamental ideas of algebra and calculus. These topics are treated in some depth. Thus the course provides a sufficient basis for a wide range of useful applications of mathematics as well as an adequate foundation for the further study of the subject.