INTRODUCTION TO GEOMETRY

All architecture depends, in the end, on geometry: that is, on the arrangement of material in space. The order, beauty, significance, and feeling of what is accomplished, therefore depends entirely on the degree to which we understand the problem of ordering material in space.

Yet, surprisingly, this topic is not touched systematically by any current teaching about buildings. We do learn many useful things that are taught systematically: engineering, site planning, heating, energy, transportation, landscape, lighting design and so on. But the actual physical fabric of the building - its geometrical substance, which is where it all begins, and all ends, has dropped out of sight as a subject in its own right, and is no longer a normal part of our curriculum.

In this course, we are trying to mend that gap. We shall lay the foundation for a view of geometry and structure, which will profoundly alter a person's understanding of buildings - and may greatly alter his conception of his own design work. In particular, we hope that it will allow a person to reach a more intimate connection between himself and his own design work - in which works of greater feeling can be created.

The view of geometry which is presented here is deep, and difficult to understand. It is, in effect, the material which Ties behind, or underneath, the material presented in the Timeless Way of Building and a Pattern Language.

To present it, we shall try to teach it by means of progressive steps, one week at a time, with the hope that by starting with rather elementary points, we may gradually reach the full depth of the subject matter by the ninth and tenth weeks. We shall therefore consider the course as a sequence of ten topics, each week dealing with a new topic, that emerges from, and develops, the topics discussed in previous weeks. An outline of these ten topics is presented below.

CALENDAR OF TOPICS

| Week | 1. | ORDER Cili par. |
|------|----|---|
| Week | 2. | MIRROR OF THE SELF ferm |
| Week | 3. | FIFTEEN PROPERTIES 9 7 7 2000 |
| Week | 4. | JENTERS Firefood interpretations |
| Week | 5. | CENTERS & FUNCTION CONTROL CONTINUE BY SELL |
| Week | 6. | THE CENTERING PROCESS heigh had |

Week 7. THE "BEING" NATURE Week 8. COLOR AND INNER LIGHT NOT SEPARATENESS

Show Stage. Week 9.

Week 10.

These ten theoretical topics will be accompanied by ten separate design problems, each lasting one week. These problems, though short, will not be considered as sketch problems, but will be considered very seriously as finished pieces of work, and the student will be required to submit the results of his work, each week, on a single 20 \times 30 board so that the ten boards form a coherent set for each student. The grade will be based entirely on the results of these ten design problems.

In order to produce the most successful interweaving of theory and design, the class will have a cyclical format, repeated week after week, which goes like this:

- Wednesday afternoon: Presentation of new theoretical material, 1. lecture and discussion.
- Thursday afternoon: Individual studio work, with help of instructors.
- Monday night: The week's work is handed in, followed immediately by a class review in which all boards are discussed, to provide further illumination of the week's main topic, and closure.

First class: Wednesday January 7, 2pm, Wurster 9th floor.

