

Course Syllabus

1. **Program of Study:** Bachelor of Arts Program
(Communication Design)
Faculty/Institute/College: Mahidol University International College
2. **Course Code:** ICCD 120
Course Title: Space, Form and Materials I
3. **Number of Credits:** 4 (0-8-4) (Lecture-Lab-Self study)
4. **Prerequisite(s):** None
5. **Type of Course:** Core Course
6. **Trimester/Academic Year:** Trimester II / Year 1
7. **Conditions:** Enrollment cap: 16 students
8. **Course Description:**

Introduction to basic concepts and skills of three-dimensional design. Conception and construction of simple to increasingly complex three-dimensional forms. In-depth critiques requiring student participation and evaluation of each student's own and others' projects according to principles learned in class.
9. **Course Objectives:**

After successful completion of this course, students will be able to:

 - 9.1 Demonstrate acquired manual/technical skills including measuring, cutting, forming, gluing, drawing and general sensitivity to craftsmanship.
 - 9.2 Work safely and efficiently in a workshop environment, understanding proper use of basic hand tools.
 - 9.3 Transform linear and planar materials into progressively more complex three-dimensional forms.
 - 9.4 Analyze and discuss three-dimensional forms with instructor and peers using appropriate terminology and with attention to unity, proportion, rhythm, visual movement, repetition, anomaly, accent, harmony, balance, economy, gravity and scale.
 - 9.5 Engage in a design problem-solving process, including brainstorming, sketching, research, refinement of form and concept, production of maquettes, presentation and critique of finished work.
 - 9.6 Use the method of orthographic drawing to understand and represent three-dimensional form.
 - 9.7 Create form using a system of serial planes and demonstrate ability to perceive and represent cross-section.

Course Outline

Week	Topics	Hours			Instructor
		Lecture	Lab	Self study	
1	Introduction to course objectives, projects and policies. Introduction to Workshop facility. Begin Project 1 (“Polyhedron Problem”). Introductory lecture on three-dimensional composition and the importance of 2D to 3D and 3D to 2D translation. Demonstration of craftsmanship in measuring, cutting and constructing simple, regular polyhedral forms in paper. Student brainstorming and presentation of possible solutions.	0	8	4	Carol Siatras
2	Continue Project 1. Work in progress with individual in-process critiques. Final presentation and formal critique of project. Process books due.	0	8	4	Carol Siatras
3	Begin Project 2 (“Perfect Cube, Perfect Tetrahedron”). Demonstration of basic construction methods in cardboard (measuring, cutting, exactness of edge and surface, gluing). Lecture on cutting safety. Students construct cube, cylinder. Student peer-evaluations and critique.	0	8	4	Carol Siatras
4	Advanced forms workshop. Experimentation with simple curved planes and related geometric forms. Demonstration of additional construction methods such as scoring and bracing. Students construct cylinder, arch, cone. Critique.	0	8	4	Carol Siatras
5	Begin Project 3 (“House-lizard House”). Presentation of examples with lecture on compositional terms and form/function relationship. Brainstorming, sketching and concept development.	0	8	4	Carol Siatras
6	Continue Project 3. Evaluation of designs/concepts in maquette format. Beginning of construction of project.	0	8	4	Carol Siatras
7	Continue Project 3. Continuation of construction with in-process critique. Final presentation and formal critique of project. Process books due.	0	8	4	Carol Siatras
8	Begin Project 4 “Drawing in Space”. Presentation of examples with lecture on using wire as linear constructional element. Demonstration of tools, techniques and safety practices. Student research to choose subject matter and produce maquettes.	0	8	4	Carol Siatras

	Work in progress and small group critiques of technique and craftsmanship.				
9	Continue Project 4. Work in progress. In-process critiques. Final presentation and formal critique of project.	0	8	4	Carol Siatras
10	Begin Project 5 "Abstraction/Expression". Lecture on communicative sculptural forms with examples from modern and contemporary sculpture. Introduction of balsa wood material and demonstration of tools, techniques and safety. Brainstorming, workshop to develop concepts and produce maquettes.	0	8	4	Carol Siatras
11	Project 5. Work in progress, construction and finishing of final forms. In-process critiques.	0	8	4	Carol Siatras
12	Formal presentation and final critique. Process books due.				Carol Siatras
Total		0	88	44	

9. Teaching Methods

- 11.1 Lecture
- 11.2 Workshop demonstration
- 11.3 Group discussion and critique session
- 11.4 Self-study

10. Teaching Media

- 12.1 Supplementary handouts
- 12.2 Presentation of images
- 12.3 Visual references

11. Measurement and Evaluation of Student Achievement

Students will demonstrate their ability to:

- 13.1 Apply acquired manual/technical skills including measuring, cutting, forming, gluing, drawing and general sensitivity to craftsmanship.
- 13.2 Work safely and efficiently in a workshop environment, understanding proper use of basic hand tools.
- 13.3 Transform linear and planar materials into progressively more complex three-dimensional forms.
- 13.4 Analyze and discuss three-dimensional forms with instructor and peers using appropriate terminology and with attention to unity, proportion, rhythm, visual movement, repetition, anomaly, accent, harmony, balance, economy, gravity and scale.

- 13.5 Engage in a design problem-solving process, including brainstorming, sketching, research, refinement of form and concept, production of maquettes, presentation and critique of finished work.
- 13.6 Use the method of orthographic drawing to understand and represent three-dimensional form.
- 13.7 Create form using a system of serial planes and demonstrate ability to perceive and represent cross-section.

Student achievement will be evaluated by means of:

Project 1	10%
Project 2	10%
Project 3	30%
Project 4	25%
Project 5	25%
Total	100%

Student achievement will be graded according to College and University standard using the symbols A, B+, B, C+, C, D+, D and F.

Students must have attended at least 80% of the total class hours of this course in order to receive a grade.

12. Course Evaluation

14.1 Students' achievement as indicated in number 13 above.

14.2 Students' satisfaction towards teaching and learning of the course using questionnaires.

13. References

- Block, J., & Leisure, J. (1986). *Understanding three dimensions*. New Jersey: Prentice Hall.
- Wong, W. (1977). *Principles of three-dimensional design*. New York, NY: Van Nostrand Reinhold.
- Zelanski, P., & Fisher, M.P. (1995). *Shaping space: the dynamics of three-dimensional design*. Orlando, FL: Harcourt, Brace and Company.

14. Instructor

Carol Siatras
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15. Course Coordinator

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