## Course Description

- Learn basic software technologies of design and manufacturing by creating a simple CAD/CAM program for editing and machining free-form surfaces
- Location: Room #8-222, 2nd floor
- Schedule: Wednesday, 13:00-14:40

No.	Date	Topic (Location)
1	Apr. 14	Introduction (Room #8-222)
2	21	Lecture on Java 2 programming (Room #8-222)
3	28	Lecture on free-form surface generation, Assignment #1 (Room #8-222)
4	May 5	No class
5	12	Q&A [questions accepted until 13:15] (Room #8-222) or Programming (yet to be determined)
6	19	Lecture on Java 2 File Input/Output, Q&A (Room #8-222)
7	26	Q&A or Programming
8	Jun. 2	Lecture on tool path and NC code generation, Assignment #2 (Room #8-222)
9	9	Q&A or Programming
10	16	Q&A or Programming
11	23	Q&A or Programming
12	30	Deadline for Assignments #1 and #2, Assignment #3 (Room #8-222)
13	Jul. 7	Free-form surface machining, Assignment #3 due (Room #8-0069, department machine shop)
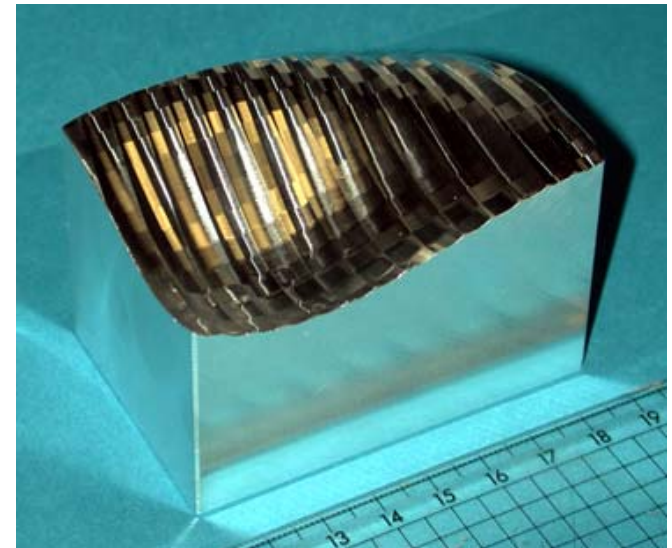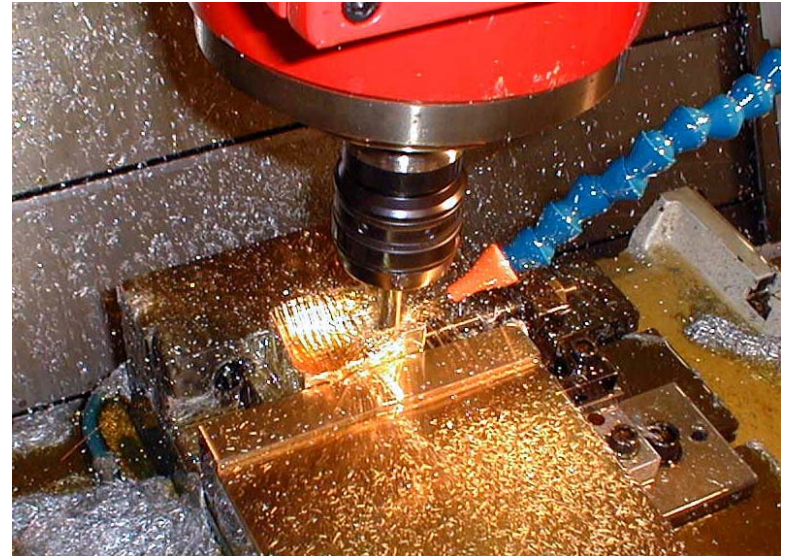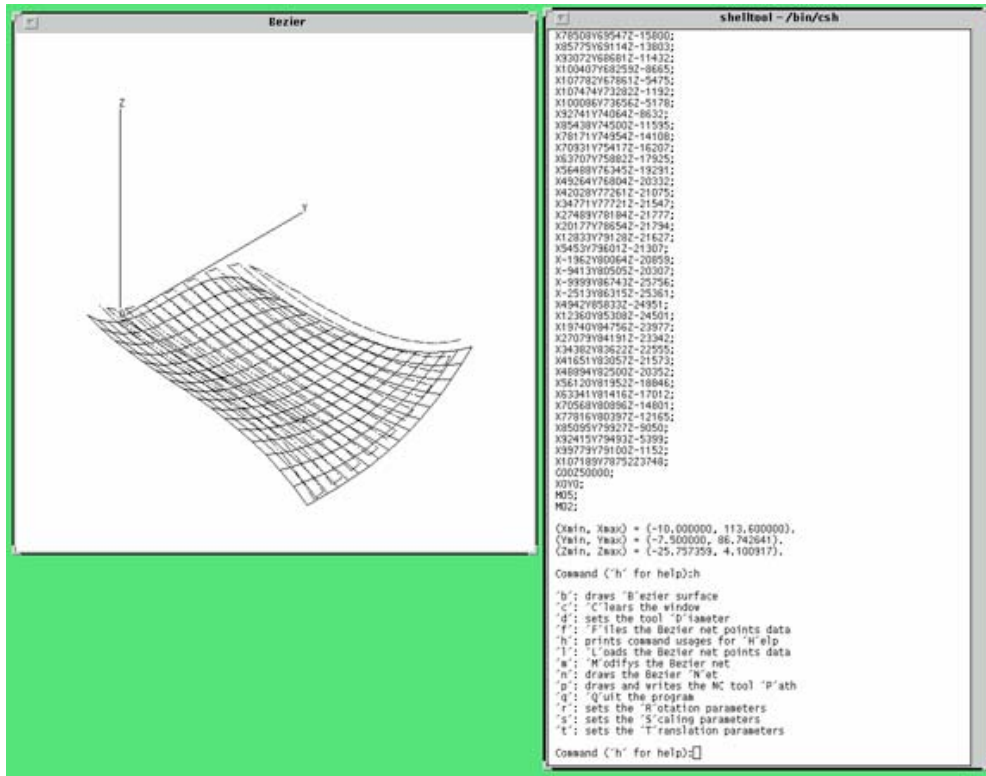
- Program language
  - Java 2 (default for this course)
    - Java 2 Platform, Standard Edition (J2SE) 1.4
      - It can be downloaded from the following sites for free
      - Working on a multiplatform basis, software can be developed through the Internet with graphics, interfaces, etc.
      - ASP (Application Service Provider): A business model will be developed to sell software services through the Internet based on user licensing, rather than selling programs physically in a package
  - You can use other program languages based upon your interest

- Textbook
  - Not yet specified; necessary information will be provided as handouts

- Evaluation
  - Evaluation will be based on the submitted assignments; there will be no exam at the end of the semester
  - Students need not be nervous about the evaluation; I understand that some students may be programming beginners, while others may already be experts
  - You can ask questions of your friends and use their ideas and knowledge, but you can never use or copy their program codes; each student should write his or her own software; no group work will be accepted

- Announcements and Information
  - Check the web page:
    - http://www.design.t.u-tokyo.ac.jp/lectures/mech_design_methodology/
  - Any new announcements will be posted on this page on Monday afternoons

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