Syllabus	9. "AI Game Programming Wisdom 2", by Steve Rabin, Charles River Media, 2003
COEN 396 Interactive Multimedia and Game Programming Department of Computer Engineering Santa Clara University	 "Core Techniques and Algorithms in Game Programming", by Daniel Sanches-Crespo Dalmau, New Riders Publishing, 2003 "Managed DirectX 9 Kick Start: Graphics and Game Programming", by Tom Miller, Same 2003
Dr. Ming-Hwa WangWinter Quarter 2006Phone: (408) 822-0294Email address: mwang2@cse.scu.eduCourse website:http://www.cse.scu.edu/~mwang2Office Hours:Tuesday & Thursday 9:00-9:30pm	 12. "Tricks of the 3D Game Programming Gurus-Advanced 3D Graphics and Rasterization", by Andre LaMothe, Sams, 2003 13. "Real-time Rendering, 2nd Edition", by Tomas Akenine-Moller and Eric Haines, AK Peters, 2002
Course Description Game engine and architecture, game data structures and algorithms, window game programming, 2D and 3D programming, scripting and parsing, massively multiplayer online real-time games p2p networking game	Grading Policy Course grade is determined based on the total score (maximum 1000 points + up to 200 optional bonus points for extra work) from: 1. Final exams of 300 points. Makeup exams (must have a very good
mathematics and physics, artificial intelligence game techniques, interactive multimedia, etc.	 reason for makeup) are much difficult than normal exams. One Programming assignment of 100 points (late penalty: 20 points/day.) Makeups are more difficult too.
Prerequisites Data Structures and Computer Algorithms. Computer Graphics, Real-time Operating Systems, Computer Networks, Artificial Intelligence, Compiler, etc.	 A group (prefer 2 people in a team) programming term project of 600 points (late penalty: 140 points/day.) No makeup is allowed. Bonus assignments including submission (10 points), presentation and participation (190 points, very subjective, but mostly based on presentation skill and questioning). No late work accepted for bonus
 Required Textbooks 1. "SMIL 2.0 : Interactive Multimedia for Web and Mobile Devices", by Dick C.A. Bulterman and Lloyd Rutledge, Springer, 2004 2. "At far Come Development", by Devid M. Bourg and Clopp Seement. 	assignments. 5. Class average targeted at B+ . Table 1: Grade-score table
 Al for Game Developers, by David M. Bourg and Glenn Seemann, O'Reilly, 2004 "Tricks of the Windows Game Programming Rurus, 2nd Edition", by Andre LaMothe, Sams, 2002 	1000 950 900 850 800 750 700 650 0 1200 999 949 899 849 799 749 699 649 A A B+ B B- C+ C C- E
Poforonces	
 "3D Game Engine Architecture, Engineering Real-time Applications with Wild Magic", by David H. Eberly, Morgan Kaufmann, 2005 "Organ Campelete", Organ Kaufmann, 2005 	Course Schedule (Tuesday & Thursday 7:10pm-9:00pm) Table 2: Course Schedule
2. "Game Coding Complete, 2" Edition", by Mike McShattry, Paraglyph,	# week Readings Remarks
3. "Game Programming Gems 5", by Kim Pallister, Charles River Media.	1 1/10 1/12 introduction submit due 1/12
2005	2 1/17 1/19 window game programming game presentation 1/17
4. "Killer Game Programming in Java", by Andrew Davison, O'Reilly, 2005	4 1/31 2/2 data structures/algorithms problem due 1/31
5. "Beginning Mobile Phone Game Development", by Michael Morrison,	5 2/7 2/9 game mathematics/physics group & topic due 2/7
6. "Essential Mathematics for Games & Interactive Applications, A	6 2/14 2/16 2D/3D game programming paper presentation
Programmer's Guide", by James M. Van Verth, Lars M. Bishop, Morgan	 7 2/21 2/23 AI game techniques proposal due 2/21 8 2/28 3/2 p2p petworking and MMORG
Kaufmann, 2004	9 3/7 3/9 scripting and parsing
 Game Physics , by David H. Ebeny, Morgan Kaumann, 2004 "Programming Game AI by Example", by Mat Buckland, Wordware Publishing, 2004 	103/14 3/16interactive multimediafinal exam 3/14113/21project defense 3/21
	Reminder

- No cheating, and no register complaint without talking to me first.
- No incomplete. Due date for withdraw is March 17.
- No sit-in or audit the class except formally registered.
- Read files under /home/mwang2/tips for help.
- Handouts, assignments, and solutions will be posted on the web. You should check the class web site at least once a week. You are responsible for printing and bring the handout to the class.
- Put a cover page posted my website on top of each of your submitted written/hardcopy assignment.
- Office hours are 9:00pm-9:30pm after each lecture.

Honor Code

All students taking course in the school of engineering agree, individually and collectively, they will neither give nor receive unpermitted aid in examinations or other course work that is to be used by the instructor as a basis of grading.

Disability Accommodation Policy:

To request academic accommodations for a disability, students must contact Disability Resources located in The Drahmann Center in Benson, room 214, (408) 554-4111; TTY (408) 554-5445. Students must provide documentation of a disability to Disability Resources prior to receiving accommodations.