

COURSE SYLLABUS - IC 771CA

TV Program
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Spring 1999
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NATIONAL TECHNOLOGICAL UNIVERSITY

IC 771CA- Spring 1999 - 3 Units
Advance Analog Integrated Circuits
Professor Bernard Boser
(UC Berkeley EECS 240)

*Special Note: This syllabus reflects the sequence of lectures as it was videotaped in the Fall of 1997. You must take the exams by the deadlines below. If you have a conflict, call **BEFORE** the deadline to arrange an alternative time.*

Text: *ANALYSIS AND DESIGN OF ANALOG INTEGRATED CIRCUITS*, by Gray and Meyer, third edition (1992)

Wed, January 20	Lecture #1 - Introduction, Course Overview
Fri, January 22	Lecture #2 - Matching
Mon, January 25	Lecture #3 - Matching (cont.)
Tues, January 26	Conference Call Sign - In: You <u>must</u> call the Cal VIEW office (510) 642-5776 to sign up for the Mandatory conference call with Keith on 1/28.
Wed, January 27	Lecture # 4 - Matching (cont.)
Thurs, January 28	Conference Call - MANDATORY Introductory telephone discussion with Keith Onodera at 10am (PT)
Fri, January 29	Lecture #5 - Biasing
Mon, February 1	Lecture #6 - Biasing
Wed, February 3	Lecture #7 - High Swing Cascode Biasing HOMEWORK #1 DUE: BACKGROUND QUESTIONNAIRE IS DUE WITH HW. #1. Must be

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postmarked no later than 2/3.

Fri, February 5	Lecture #8 - Biasing
Mon, February 8	Lecture #9 - Biasing and Noise
Wed, February 10	Lecture #10 - Noise
Fri, February 12	Lecture #11 - Noise
Mon, February 15	President's Day - Holiday
Wed, February 17	Lecture #12 - Noise
Fri, February 19	Lecture #13 - Noise HOMEWORK #2 DUE: Must be postmarked no later than 2/19.
Mon, February 22	Lecture #14 - Noise (cont.)
Wed, February 24	Lecture #15 - Noise & Feedback
Fri, February 26	Lecture #16 - Noise & F. B.
Mon, March 1	Lecture #17 - Amplifiers
Wed, March 3	Lecture #18 - Amplifiers
Fri, March 5	Lecture #19 - Noise HOMEWORK #3 DUE: Must be postmarked no later than 3/5.
Mon, March 8	Lecture #20 - Amplifiers Conference Call Sign-In: You must call the Cal VIEW office (510) 642-5776 to sign up for the conference call with Prof. Boser on 3/10.
Tues, March 9	Conference Call Sign-In: You must call the Cal VIEW office (510) 642-5776 to sign up for the conference call with Keith on 3/11.
Wed, March 10	Lecture #21 - Amplifiers Conference Call - Telephone discussion with Prof. Boser at 9am (PT).
Thurs, March 11	Conference Call - Telephone discussion with Keith at

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10am (PT).

Fri, March 12

Lecture #22 - Amplifiers
HOMEWORK #4 DUE: Must be postmarked no later than 3/12.

Week of 3/15-3/19

MIDTERM EXAMINATION: ANY TIME THIS WEEK. MUST BE POSTMARKED BY 3/19. **NO BROADCASTS THIS WEEK**

Week of 3/22-3/26

Spring Break- NO BROADCASTS

Mon, March 29

Lecture #23 - Amplifiers

Wed, March 31

Lecture #24 - Amplifiers

Fri, April 2

Lecture #25 - Amplifiers

Mon, April 5

Lecture #26 - Amplifiers

Wed, April 7

Lecture #27 - Amplifiers
HOMEWORK #5 DUE: Must be postmarked no later than 4/7.

Fri, April 9

Lecture #28 - Amplifiers

Mon, April 12

Lecture #29 - CMOS Switch

Wed, April 14

Lecture #30 - MOS Sample & Hold

Fri, April 16

Lecture #31 - Offset Cancellation

Mon, April 19

Lecture #32 - Noise in S/H.

Wed, April 21

Lecture #33 - MOS S/H - Noise

Fri, April 23

Lecture #34 -OTA

Mon, April 26

Lecture #35 - Comparators
Conference Call Sign-In: You must call the Cal VIEW office (510) 642-5776 to sign up for the conference call with Prof. Boser on 4/28.

Wed, April 28

Lecture #36 - Filters
HOMEWORK #6 DUE: Must be postmarked no later than 4/28.

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Conference Call: Telephone discussion with Prof. Boser at 9am (PT).

Fri, April 30

Lecture #37 - Butterworth Filters

Mon, May 3

Lecture #38 - Filters

Wed, May 5

Lecture #39 - Filters

Fri, May 7

Lecture #40 - Filters
PROJECT DUE

Mon, May 10

Lecture #41 - Filters

Tues, May 11

Conference Call Sign-In: You must call the Cal VIEW office (510) 642-5776 to sign up for the conference call with Keith on 5/13.

Wed, May 12

Lecture #42 - Filters (Last Lecture)

Thurs, May 13

Conference Call - Telephone discussion with Keith at 10am (PT).

Fri, May 14

HOMEWORK #7 DUE: Must be postmarked no later than 5/14.

Week of 5/17-5/21

FINAL EXAMINATION: Must be postmarked no later than Fri. 5/21.