

COLLEGE OF CHEMISTRY COURSE GUIDE (../INDEX.HTML)

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CHEM C191/CS C191/PHYS C191 - QUANTUM INFORMATION SCIENCE AND TECHNOLOGY (3 UNITS)

(Taken from the UC Berkeley Course Guide (<http://guide.berkeley.edu>))

COURSE OVERVIEW

SUMMARY

This multidisciplinary course provides an introduction to fundamental conceptual aspects of quantum mechanics from a computational and informational theoretic perspective, as well as physical implementations and technological applications of quantum information science. Basic sections of quantum algorithms, complexity, and cryptography, will be touched upon, as well as pertinent physical realizations from nanoscale science and engineering.

PREREQUISITES

None

WORKLOAD

TIME COMMITMENT

3 hours of lecture per week.

COLLEGE OF CHEMISTRY PEER SERVICES

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