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UNIVERSITY CATALOG 2010-2011

Mission
Accreditation
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College of Osteopathic Medicine Catalog
Course Descriptions
Faculty

interdisciplinary collaboration and innovation in education, research, and service.

Accreditation, Memberships, and Other Notices

- The University of New England is accredited by the New England Association of Schools and Colleges, Inc., which accredits schools and colleges in the six New England states. Accreditation by the Association indicates that the institution has been carefully evaluated and found to meet standards agreed upon by qualified educators.
- The UNE Athletic Training Program is an undergraduate program accredited by the Council on the Accreditation of Athletic Training Education (CAATE).
- The Business Program in the Department of Business and Communications is accredited by the Accreditation Council for Business Schools and Programs (ACBSP).
- The education programs leading to elementary and secondary certifications are approved by the State of Maine Department of Education.
- The physical therapy educational program is accredited by the American Physical Therapy Association.
- The occupational therapy educational program is accredited by the American Occupational Therapy Association.
- Nursing programs are accredited by the National League of Nursingte ه of Nuᵹf Nuèation. tio ه ioزzia ssion on Accredita

  Education.
- The School of Nurse Anesthesia is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs, a specialized accrediting body recognized by the Council on Post-secondary Accreditation and the U.S. Department of Education.
- The Physician Assistant Program is accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA).
- The University of New England College of Osteopathic Medicine is accredited by the American Osteopathic Association Commission on Osteopathic College Accreditation (AOA COCA).
- The College of Pharmacy Doctor of Pharmacy Program (Pharm.D.) at the University of New England has

  the Maine Consortium of Health Professionals, the Council of Independent Colleges and Universities, the National Association of College Auxiliary Services, the College Entrance Examination Board, the National Collegiate Athletic Association, the National Association of College Admissions Counselors, the New England Association of College Admissions Counselors, the American Association of Collegiate Registrars and Admissions Officers, the National Association of College and University Business Officers, the American Association of Colleges of Osteopathic Medicine, and the Greater Portland Alliance of Colleges and Universities.
- The financial requirements of the University

registration for a given academic term. The applicant acknowledges this reservation by the submission of an application for admission or by registration.
- The University of New England reserves the right in its sole judgment to make changes of any nature in its programs, calendar, or academic schedule whenever it is deemed necessary or desirable, including changes in course content, the rescheduling of classes with or without extending the academic term, canceling of scheduled classes or other academic activities, in any such case giving such notice thereof as is reasonably practicable under the circumstances.
- While each student may work closely with an academic advisor, he or she must retain individual responsibility for meeting requirements in this catalog and for being aware of any changes in provisions or requirements.
- The University of New England does not discriminate in admission or access to, or treatment of employment in, its programs and activities on the basis of race, ethnicity, national origin, color, gender, sexual orientation, religion, age, veteran status or disabling condition in violation of federal or state civil rights laws of Section 504 of the Rehabilitation Act of 1973. Inquiries or concerns may be addressed to the Human Resources Office.

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Biddeford, Maine 04005-9599

207-283-0171

Portland Campus

716 Stevens Avenue
Portland, Maine 04103-7225

207-797-7261

Notice and Responsibilities Regarding this Catalog

This Catalog documents the academic programs, policies, and activities of the University of New England for the 2010-2011 academic year. The information contained herein is accurate as of date of publication August 1, 2010.

The University of New England reserves the right in its sole judgment to make changes of any nature in its programs, calendar, or academic schedule whenever it is deemed necessary or desirable, including changes in course content, the rescheduling of classes with or without extending the academic term, canceling of scheduled classes or other academic activities, in any such case giving such notice thereof as is reasonably practicable under the circumstances.

While each student may work closely with an academic advisor, he or she must retain individual responsibility for meeting requirements in this catalog and for being aware of any changes in provisions or requirements.

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Administration

University Officers

Ripich, Danielle - President
Ph.D., Kent State University; M.A. Cleveland State University; B.A. Cleveland State University

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Ph.D., Syracuse University-English; M.A., City University of New York-English; B.A., University of Fez, Morocco-English

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M.S., New England College; B.A., B.S., University of Southern Maine

Brazeau, Gayle A. - Dean, College of Pharmacy
Ph.D. University at Buffalo, State University of New York, School of Pharmacy and Pharmaceutical Sciences; M.S., B.S. University of Toledo, College of Pharmacy

Ford, Timothy – Vice President for Research and Dean of Graduate Studies
Ph.D., University of Wales, Bangor; B.Sc. Sussex University

Hahn, Marc B. – Dean, College of Osteopathic Medicine & Vice President for Health Services
D.O., Des Moines University; B.S., Syracuse University

Brown, A. Christine - Dean, College of Arts and Sciences (N

Handy, Ray – Assistant Dean of Students – WCC
CAGS Springfield College; M.S., Springfield College; B.S. Springfield College

Johnson, David W. - Chief Information Officer
M.S., Marshall University; B.A., University of Maine, Orono

Langevin, John - Assistant Dean of Students, Director of Counseling
Ph.D., Columbia Pacific University; M.A., Azusa Pacific University; B.A./B.S.W., California State University

Nahorney, Mark J - Director, Campus C]J lf t

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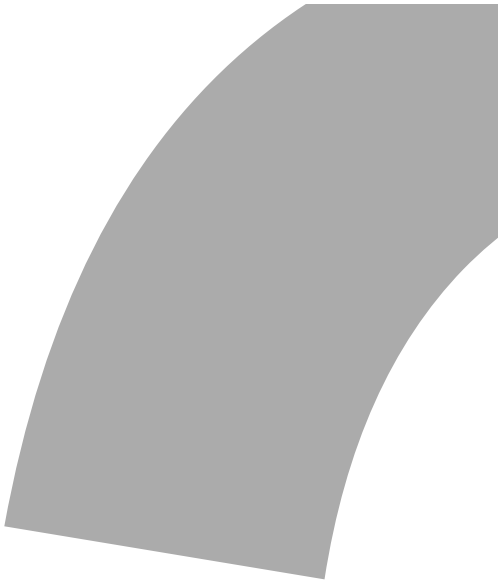

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([DP LQDWLRQV

* UDGLQJ 6\VWHP

$XGLW8 RDF\

3DVV) DLO8 RDF\

,QFRP SOHWH8 RDF\

&RXUVH: LWKGUDZDO8 RDF\

/ HDYH RI $EVHQFH 3RDF\

8QYHUVLW: LWKGUDZDO

5HSHDW&RXUVH 3RDF\

&RXUVH: RUN DW$ QRWKHU,QVWLWXWLRQ

6HP HVWHUDQG 7HUP * UDGH 5HSRUWV

$FFHOHUDWHG DQG ' LVP LVVDO

$FFHOHUDWHG +RQRUV

$GSKD &KL1 DWLRQDO&RQJUH+RQRU6RFLHWLHV

&LWDWLRQ RI $FKLHYHP HQWDW* UDGXDWLRQ

' HFODUDWLRQ DQG&KDQJH RI 0 DMRU

$FFHOHP LF 0 LQRUV

6WXGHQW$GYLVLQJ

6WXGHQW5HFRUGV DQG7UDQVFULSWV

6WXGHQW$FFHVV DQG $QQXDO1RWLFDWLRQ

' LUHFWRU ,QIRUP DWLRQ DQG' LVFORVXUH

5HVSRQVH7LP H DQG(QG RI 7HUP 3URFHVVLQJ

7UDQVFULSWV

* UDGXDWRQ5HTXLUHP HQWV IRU8QGHUJUDGXDWHV

7KH DFDGHP LF UHTXLUHP HQWV RXWOLQHG LQ WKLV VHFWLRQ DUH WKH H RI D VWXGHQWV P DWHFXODWRQ LQWR D SURJUDP RI VWXG DUH JHQHUDOO\ DSSOLFDEOH WR DOO VWXGHQWV ,H D VWXGHQWZ LWKGUDZ V RUV GLVP LVVHG IURP WKH 8QLYHUVLW DQG VXEVHTXHQW UHHQWU\ LV JRYHUQHG E\ WKH UXOHV LQ HIIHFW DW WKH WLPH RI UHHQWU

5 HJLVWUDWRQ DQG (QUROOP HQW& RQILUP DWRQ

6 WXGHQWV P DWHFXODWHG LQ DQ XQGHUJUDGXDWH SURJUDP P XVWEH SUH DSSURYHG WR UHJLVWHU IRUFRXUVHV RUFKDQJH FRXUVHV UHJLVWUDWRQ WKURXJK WKHLUDGYLVRU \$GYLQJ ODLVRQ LQ&6 DUH DOVR DYDLODEOH LQHFK GHSDUWPHQWR DSSURYH FRXUVHV ,Q&+3 VWXGHQWV P D\ FRQGFWWKHLUSURJUDP GLUHFWRUFRUGLQDWRUIRUWLVW SXUSRVH) LWWWP H VWXGHQWV ZLOOHJLVWUQ DSSRLQWG GDWV DQG ZLOOR WKURXJK D QHZ VWXGHQWRUHQWQ 5 HXLQLQJ VWXGHQWV FDQ SUHUHJLVWUIRFRXVHV DWGDWV HVWDEOVKHG LQ WKH 8 QLYHUVLWV \$ FDGHP LF &DOHQGDU

&RXUVH UHJLVWUDWRQ P XVWEH FRQILP HG WKURXJK 5 e €

8 QLY HUVLWLR 1 HZ (QJODQG $F DGHP LF 3RDF \DQG5 HJXODWRQV

GHVLJQDWHG WR H RUWR QRQ DWWHQGLQJ VWXGHQWV ZKR DUH HQUROOHG LQ FRXUVHV ZKR KDYH QRW RUP DOO ZLWKGUDZ DQG $8 DXGLW

(TXLYDOHQWXDOO SRLQWV DVVLJHG WR JUDGHV DUH DV IROOZV
$
$ O

5 HSHDW&RXUVH 3RDF\

$ VWXGHQW PD\ UHSHDW FRXUVH LQ RUGHUWR LP SURYH KLV KHJUDGH + RZHYHU RQO\ WKH VHFRQG RUGDWWFRXUVH WDNHQ ZLOO UHFHLYH FUHGLWRQ WKH VWXGHQW WDQVFULSW DQG RQO\ WKH VHFRQG RUGDWWUDGH UHFHLYHG ZLOOFDDXDMMLQR WKH FXP XDWLYH * 3$

HP HV\

&RXUVH: RUN DW$ QRWKHU,QVWLWXWLRQ

0 DWHXDWHG VWXGHQW ZKR ZLVK WR WDQVIHUFRGHU HGYHOFRXVH ZRUN WDNHQ DWDQRWKHULQVWLWXWLRQ P XVWREWDLQ SHUPLVVLRQ WR GR VR 7KH VWXGHQW WKRXOG ZRUN FORVHO ZLWK KLV KHUDGYLVRUHJUDGLQJ WKLV SURFHVV 5HTXHVWFRU&RXUVH: RUN DW$ QRWKHU,QVWLWXWLRQ IRUP V DUH DYDLODEOH IURP 5HJLVWUDWRQ6HUYLFHV $ P LQP XP JUDGH RI & P XVWEH HDLQHG IRUWKH FRXVH LQ RUGHUIRUIWWR EH DFFHSWHG E\ WKH 8QLYHUVLW RI 1HZ (QJODQG IXUWKHUHVWUDWFRQV P D\ DSSO FKHFN ZLWK GHSDUWPHQWUDGLQJ WDQVFULSWVRU EDFNSRDF 6WXGHQWV P XVWUHTXHVWWKDWDQ RIILFLDOWDQVFULSWRP WKH LQVWLWXWLRQ EH VHQWRR WKH 8QLYHUVLW RI 1HZ (QJODQG5HJLVWUDU2IILFHLQ RUGHUWR DVXUH WDQVFULSWRP

,P SRUWDQWQRWH UHJDUGLQJ WDQVFHUFUHGLW ZKLOH FUHGLW P D\ WDQVIHUEDVHG RQ WKHVH FUWWLUD JUDGHV SRQV GR QRWWDQVIHULQR WKH VWXGHQW81(DFDGHP LF UHFRUG * UDGHV IRUDFFHSWWG WDQVIHUFRXVHV DUH LGHQWLHG RQ WKH81(WDQVFULSWZLWK D 75 V\P ERLQ WKH JUDGH FRXP Q ZKFK GHQRWV FUHGLWDFFHSWG EXWQR * 3$ FDDXDMRQ YDXH

$SSURYHG 6WXG\ $EURDG

0 DWHXDWHG VWXGHQW ZKR ZLVK WR UHFHLYH FUHGLWRUD UG3DUW6WXG\ $EURDG3URJUDP P XVWREWDLQ SHUPLVVLRQ WR GR VR 7KH IRUP LV DYDLODEOH DWWKH* OREDO(GXFDWRQ3DJH 7KH VWXGHQWWKRXOG ZRUN FORVHO ZLWK KLV KHUDGYLVRU UHJDUGLQJ WKLV SURFHVV $SSURYHG5HTXHVWFRU6WXG\ $EURDG &RXUVHZRUN IRUP V DUH UHTXLUHG SULRUWR GHSDUWXUH

$SSURYHG6WXG\ $EURDG* UDGHV

7KH JUDGHV IRUFRXUVHV WDNHQ RQ UG3DUW6WXG\ $EURDG3URJUDP V ZLOODSSHDURQ WKH VWXGHQW81(DFDGHP LF UHFRUG 2 UJQDOCFRXVH WWRV DQG JUDGHV DUH LGHQWLHG RQ WKH81(WDQVFUIUSWZ KLFK GHQRWHV WKH DFWXDOCLQWUQDWRQDOJUDGH +RZHYHU VICFH WKH DFWXDOJUDGH YDOHV YDU IURP QDWRQ WR QDWRQ WKH JUDGHV IRUWKLG SDUW 6WXG\ $EURDG &RXVHV ZLOOKDYH QR * 3$ FDDXDMRQ YDOXH 7KDWV VXFK FRXVHV ZLOOQRWDDIHFWW RXU* 3$ DV81(* UDGXDWRQ FUHGLWRU VXFK FRXVHV ZLOORQO EH JLYHQ IRUªSDVVLQ´ JUDGHV DV GHILQHG E\ WKH RUG(GXFDWRQDC6 HUYLFHV JXLGHKDQHV DQG E\ YHULLFDWRQ IURP WKH81(5HJLVWUDU 81(SURJUDP DQG GHSDUWPHQWQWXHUHP HQW IRUVSHFLF FRXVHV ZLOODOYR DSSO 7KIV LV ZK\ DSSURYDOSURUWR GHSDUXUH LV UHTXLUHG

6HP HVWHUDQG 7HUP * UDGH 5HSRUWV

6HP HVWHUDQG WHUP JUDGH UHSRUWV DUH LVVXHG DWWUH[DP LQDWRQ KDYH EHHQ KHG DWWKH FORVH RI HDFK VHP HVWHUURUWHUP 6HP HVWHUDQG WHUP JUDGHV UHSRUWHG E\ IDFXOW P HP EHUV WR 5HJLVWUDWRQ6HUYLFHV DUH ILQDO1RWFHV RI GHILFLHQF\ LL UHSRUWHG ZLOOEH GLVWUEXWHG DWP LG VHP HVWHU

$FDGHPDDWBRUREDWRQ DQG ' LVP LVVDO

7KH VWXGHQWZKR LV DWWHP SWQJ VI[FUHGLW RUP RUH DQG ZKRVH JUDGH SRQWDYHUDJH * 3$ IRUDQ\ VHP HVWUIDOY EHBZ RUZKRVH FXP XDWLYH JUDGH SRQWDYHUDJH LV EHBZ WKH P LQP XP DFFHSWDEBH BMY HOLV DXWP DWFDO SDFHG RQ SUREDWRQ $ VWXGHQWSDFHG RQ DFDGHP LF SUREDWRQ ZLOOEH JUDQWG RQH IDORUVSULQJ VHP HVWUIUR KLV KHU FXP XDWLYH * 3$ WR WKH P LQP XP DFFHSWDBEH BMY HOLQG ZLOOEH UHTXLUHG WR DFKLHV D P LQP XP * 3$ RI IRUWKH VHBEWMU)UDGXUBRWRDFHWHWRRI WKHVWXGHQW ZLOOUHVXOWQ DXWP DWF GLVP LVVDOIURP WKH8QLYHUVLW IRUDFDGHP LF GHILFLHQF\ XQBMHWQRVJNPBD HPWUDGXBRWRSDUWHP LF

$ VWXGHQWQ DFDGHP LF SUREDWRQ LV LQHQJLEGH WR SDUWFLSDWH LQ P DWRUH[WDFXUXDUDFWLYLWHV LQFXGLQJ LQWUFRGBUDWRU DWXGHQWFRUU RUWR VHUYH DV RIILFHURUGLHFWRUR DQ\ VWXGHQWDFWLYLW

7KH P LQP XP FXP XDWLYH VHP HVWUIDGG JUDGH SRQWDYHUDJHV DUH

P URGH LBBHP*

)BBBBBBBBBBBBBZKFHSPQLD@
) DDRI 6HFRQG<HDU
6 SULQJ RI 6HFRQG<HDU
) DDRI 7KLUG<HDU
6 SULQJ RI 7KLUG<HDU
) DDRI) RXUW<HDU
1 RWHV $ P LQP XP FXP XDWLYH JUDGH SRQWDYHUDJH

8 QLY HUVLWLRV 1 HZ (QJODQG $F DGHP LF 3RDF \DQG5 HJXODWRQV

8 QGHUJUDGXDWH GHJUHHV ZLOOEH FRQHUHG SHUWKH IROOZLQJ FODVVLFDWLRQV

6XP P D &XP / DXGH RQ VWXGHQW ZKR KDYH DFKLHYHG D FXP XODXGH JUDGH SRLQW* 3$ DYHUDJH EHWZHHQ
0 DJQD &XP / DXGH RQ VWXGHQW ZKR KDYH DFKLHYHG D FXP XODXGH JUDGH SRLQW* 3$ EHWZHHQ
&XP / DXGH RQ VWXGHQW ZKR KDYH DFKLHYHG D FXP XODXGH JUDGH SRLQW* 3$ EHWZHHQ

' HFODUDWRQ DQG &KDQJH RI 0 DMRU

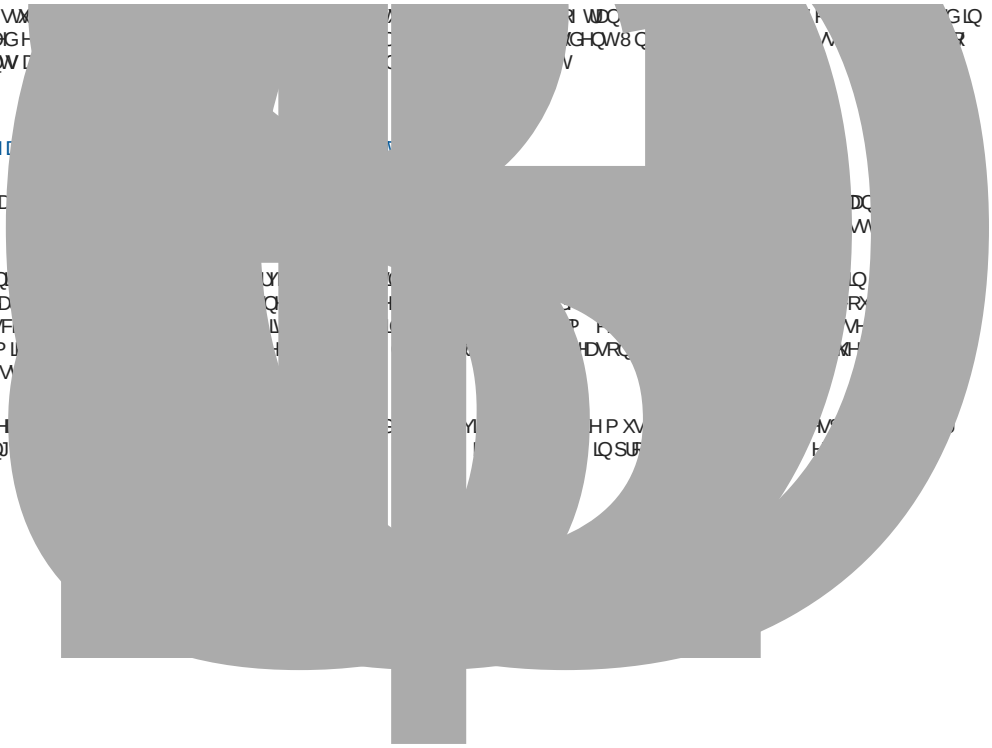
%HIRUH 0 DUFK RI WKH VHFRQG \HDU D VWXGHQW WR P DNH D IRUP DO GHFODUDWRQ RI P DMRU XVLQJ WKH DSSURSULDWH IRUP DYDLODEOH IURP 5HJLVWUDWRQ 6HUYLFHV 6WXGHQW GHFODUDWRQ GHFODUDWLRQ P DMRU VLQ P DUN HLEROJ\ P HGLFDOEELROJ\ DQG HDP HQWDU HGXFDWRQ DUH DVNHG WR GHFODUH E\ WKH HQG RI WKH ILUVW HDU 7KLV GHFODUDWRQ P XVWEH VLJQHG E\ WKH DGYLVRUDQG WKH FKDLUGLUHFWRUR WKH P DMRUGHSDUWP HQW7KH GHFODUHG P DMRU XVWEH DQ[LWLQJ DSSURYHG DFDGHP LF SURJUDP RI VWXG\ 6HH XQGHUJUDGXDWH FDWDORJ P DMRU IRUH[LWLQJ SURJUDP V RI VWXG\

3HUVRQDO0 DMRU &RQGHUHRI $UWV DQG 6FLHQFHV RQO\

,Q[FHSWRQDOFLUFXP VWDQFHV &RQGHUHRI $UWV DQG 6FLHQFHV &$6 VWXGHQWV P D\ SURSRVH D SHUVRQDOP DMRUDV DQ DOWHUQDWLYH D WRDGWRQGGDDFDGHP LF P DMRUGHUHH SURJUDP 3HUVRQDOP DMRUGHUHH SURJUDP V P XVWKDYH VSRQVRUVKLS RI DQ DFDGHP LF GHSDUWP HQWZLWKLQ &$6 DQG DSSURYDORI WKH &$6 ' HDQ¶V RIILFH 7R UHFHLYH DSSURYDORI D SHUVRQDOP DMRU GHUHH SURJUDP DQ XQGHUJUDGXDWH VWXGHQW XVWZRUN FRQGERUDWLYH ZLWK FRQGUHGHSDUWP HQWVDFXOW DQG WKH &$6 DFDGHP LF GHSDUWP HQWV DQG DFRUHEHD SURSRVHG FRP SUHKHQVLYH SURJUDP WKDWFRP ELQHV FRUHFXUULFXOXP GHSDUWP HQWDOUHTXLP HQWV DQG D FRXUVH RI VWXG\ UHGHFWWQJ WKH VWXGHQW¶V SHUVRQDOFKRLFH LQMUHVW $SSURYDORI EHJLQ SDQQLQJ DQG HYHQWXDOO VXEP LWD SHUVRQDOP DMRUSURSRVDOP XVWEH REWDLQHG WKURXJK WKH &$6 ' HDQ¶V RIILFH 7R EH HQJLEOHIRUFRQVLGHUDWRQ RI D SHUVRQDOP DMRU VWXGHQW P XVWEH LQ WKHLUVHFRQG \HDU RI VWXG\ DQG DUH UHTXLUHG WR KDYH D P LQLP XP RYHUDOO 3$ $GGLWRQDOSRFLFHV DQG SURFHGXUHV UHJDUGLQJ SURSRVDOSURVPFRQ DUH DYDLODEOH WKURXJK WKH &$6 ' HDQ¶V RIILFH

HLGHHHU·2BGWXVBTVMDQ2?KHAKDTb ÓTGBDE

8 QLY HV\W



+20(
$7+/(7,&6

81,9(56,7<QXX$

2 QH ODERUDWRU VFLHQFH FRXUVH

2 QH + XP DQLWHV ([SORUDWRQV FRXUVH

2 QH + XP DQLWHV RU6 RFLDO %HKDYLRUDO6 FLHQFH ([SORUDWRQV FRXUVH

(1 * (QJODQG & RP SRVLWLRQ

2 QH 0 DWKHP DWLFV FRXUVH

6 HFRQG < HDU 7 KHP H 6 RFLDO DQG * OREDO $ZDUHQHVV

7 ZR 6 RFLDO * OREDO $ZDUHQHVV FRXUVHV

+ XP DQ 7 UDGLWLRQV

/ ,/ (RU/ ,/ + + XP DQ 7 UDGLWLRQV

DQG

/ ,/ (RU/ ,/ +

2 QH FRXUVH ZLWK VWH / ,/ (GHVLJQDWLRQ LV UHTXLUHG

2 QH FRXUVH ZLWK VWH / ,/ + GHVLJQDWLRQ LV UHTXLUHG

7 KLUG < HDU 7 KHP H & ULWLFDO 7 KLQNLQJ

) RXUWK < HDU 7 KHP H & LW] HQVKLS

7 ZR FRXUVHV IQ $ GYDQFHG 6 WXGLHV

&,7 & LW] HQVKLS 6 HP LQDU

2 QH $ FURVV WKH) RXU< HDUV

2 QH & UHDWLYH $ UWV ([SHULHQFH FRXUVH

7 RWDO & UHGLWV

8 QLYHUVLW\ & RUH & XUULFXOXP 6 XP P DU\ DQG 2 EMHFWLYHV

- (IIHFWLYH FRP P XQLFDWLRQ VNLOOV %HJLQV WLWK (QJODQG & RP SRVLWLRQ VWXGHQWV XVH ZULWLQJ DV D WRRO RI LQTXLU
- & UHDWLYH DQG LQQRYDWLYH GHVLJQ DQG SURGXFW VROYLQJ VNLOOV) RUP DQ WXJKWLQ ([SORUDWRQV DQG DJDLQ LQ & DVH 6 WXGLHV, WKLQNLQJ VNLOOV DUH IRVWHUHG WKURXJKRXW WKH FXUULFXOXP
- SUDFWLFH [[[

8 QLY HUVLWLRI 1 HZ (QJODQG 8 QLY HUVLW&RUH&XUULF XOXP

&RQWLQXLQJ (GXFDWLRQ
,QWHUQDWLRQDO6 WXGHQW
2 QOLQH (GXFDWLRQ
9 LWWDO7RXUV
6 RFLDO0 HGLD ' LUHFWRU\

* OEEDO QWDVHV
2 QOLQH (GXFDWLRQ3 URJUDP V
&HQWHU ,QWHUQDWLRQ 5 HVHDUFK DQG 6 FKRODUVKLS
* OEEDO(GXFDWLRQ3 URJUDP
,QWHUQDWLRQDO(GXFDWLRQ &RQIERUDWLYH
5 HVHDUFK 6 FKRODUVKLS
0 XOWLFXOWXUDO ' LYHUVLW\ 6 HUYLFHV
6 WXGHQW7UXVWHH
6 WXGHQW+ DQGERRN &DUH
' LQJ 6 HUYLFHV
8 QGHUJUDGXDWH 6 WXGHQW

9 LEH3 UHVHQFH6 VWDII
$ IILDLV
6 WXI ' LUHFWRU\
0 LVVLRQ
6 DIHW 6 HFXUW\
8 QLYHUVLW\ &RYHUDJH
,QWHUQDWLRQDO(GXFDWLRQ
* UDGXDWH
6 WXGHQW+ DQGEERN
0 XOWLFXOWXUDO ' LYHUVLW\
6 HUYLFHV
6 WXGHQW7UXVWHH
6 WXGHQW+ DQGERRN &DUH
' LQJ 6 HUYLFHV
* OEEDO(GXFDWLRQ3 URJUDP
6 RFLDO0 HGLD ' LUHFWRU\

/ RFDWLRQ ' LUHFWRUV
9 LWWDO7RXUV
3 UHVHQWHG2 IIEH
0 LVVLRQ &RUH9 DOHV
6 WUDWHJLF3 ODQ
,QWHUQDWLRQDO6 HUYLFH
+ ($ 6 WXGHQW&RQRUP DWRQ
+ XP DQ5 HVRXUFHV
&DPSXV (YHQW
1 HZ V
6 XVWDLQDELOLW\ DV8 1 (
6 RFLDO0 HGLD ' LUHFWRU\

&HQWHU ,QWHUQDWLRQ 5 HVHDUFK
&RUH5 HVHDUFK) DFXOW\
DQG6 HUYLFH
5 HVHDUFK &RP SODQFH
5 HVHDUFK 6 FKRODUVKLS
' LUHFWRU\
8 QGHUJUDGXDWH 6 WXGHQW
5 HVHDUFK
81 (%RRNV $ XWRUV
) DFXOW\ 6 WXI 1 HZ V
6 WXGHQW5 HVHDUFK 1 HZ V
0 DUQH6 FLHQFHV DV8 1 (
(YHQW &DPSDLJQ
,QWHUQDWLRQDO(GXFDWLRQ
&RQIERUDWLYH
6 FKRROV &RP P XQLW DQG
3 RSXODWLRQ+ HDOWK

7ZLWWHU
566
%OBJV
/ LQNHGLQ

&RS\ UJKW 8 QLY HUVLW\ RI 1 HZ (QJODQG
7Z R &DP SXV N/ %LGGHIRUG DQG3 RUWVPRXWK 0 DLQH
3 KRQH H6 HUYLE HV &RQWDF W8V

NEW ENGLAND

KWWS UHJLVWUDU DXF DXBJ XQGHUJUDGF RHFP

0 LVVLRQ

$FFUHGLWDWLRQ

$GP LQLVWDWLRQ

%RDUG RI 7UXVWHHV

&RQWULEXWRUV DQG ' HSDUWPHQWV

6WXGHQW5HFRUGV 3ROLF\

8QGHJUDGXDWH&DWDORJ

$GP LVVLRQV

) LQDQFLDO$LG

) LQDQFLDO QRUP DWRQ

$FDGHP LF 3RO\\

* UDGXDWH 3RVW8 URHVVLRQDO &DWDORJ

&RQWULEXWRUV 2 VWHRSDWKLF 0 HGLFLQH &DWDORJ

&RXUVH' HVFULSWLRQV

) DFXOW\

8 E(-qÑQ1 HÈÊÈÊÈÊ

8QLYHUVLWRI1HZ(QJODQG$VVRFLDWH'HJUHH1XUVLQJ

GLVDELOLWLHVZKLFKLQJ WRWKH VWXGHQWVRI QXUVLQJ SUDFWLFH IRUDOOWXGHQW $VVWXGHQWLQWKH VWRGEXVRI HDFK QXUVLQJ FRXUVH DQ VWXGHQWHDILEHIRUDQG QHHGLQJ DFDGHPLF DGYXVWPHQWRUDFFRP PRGDWRQV LV UHTXHVWHG WRVSHDN ZLWK WKH SURJHVVRUZLWLQ WKH ILUVWZR ZHHNV RI FODVV 5HJLVWUDWRQZLWK' 6 LV UHTXLUHG EHIRUH DQ DFFRP PRGDWRQ UHTXHVW FDQEH JUDQWHG 8QGHUGR FLUFXPVWDQFHV ZLOOWKH' HSDUWPHQWRI 1XUVLQJ DQG+DXN0 DQDJHPHQWZDLYH DQ HVVHQWLDOFRXUVH UHTXLUHP HQV RUWHFKQLFDOVWDQGDUGV IRUDQ VWXGHQWZLWK RUZLWKRXWD GLVDELOLW\

7HFKQLFDO6WDQGDUGV
7KH SUDFWHR1XUVLQJ UHTXLUHV WKHIROORZLQJ IXQFWLRQDOELOLWLHV ZLWKRXWDFFRP PRGDWRQV

9LVXDOFDFXLW\ XVHEHDGHTXDWHVDWHVVSDWHQV DQGWKHLUHQV DV ZHOODV WR SOHP HQWKH QXUVLQJ FDUH SODQVWKHBBB

&DQGLGDWHV ZKR KDYH FRP SOHWHG DOO VFLHQFH DQG JHQHUDO FRXUVHZRUN PXVW DOH HDJLEOH IRUWKLV SURJUDP &RQWDFW FUHGLW REWDLQHG DWRWKHUQDWLRQDO DFFUHGLWHG LQVWLWXWLRQV RI KLJKHUHGXFDWLRQ P D\ EH WUDQVIHUUHG XSRQ DGP LVVLRQ EDVHG RQ WKH IROORZLQJ FRQGLWLRQV

$ JUDGH RI &´ RUEHWWHUZDV HDUQHG 0DWK DQG 6FLHQFH FRXUVHZRUN P XVWKDYH EHHQ FRP SOHWHG ZLWKLQ WKH SDVW ILYH \HDUV

7KH FRQWHQWV SDUDOOHO WR81($' 1 FRXUVHV

7UDQVIHUFUHGLWV RUQXPLQJ FUHGLW P D\ EH JLYHQ DWWUHHZ RI FRXUVH V\OODEXV HYDOXDWLRQ RI FRP SDUDEOH FRQWHQW LQ VHOHFWHG FRXUVHV

6WXGHQWV WDQVIHUULQJ QXPLQJ FUHGLW RUUHHQWULQJ DWWUD KLDWLV P D\ EH UHTXLUHG WR DXGLWWKH VHP HVWHU81(V UHTXLUHP HQW

&KDOOHQJH ([DP IRU/ 31V
/ LEHQVHG 3UDFWLFDO XVHV / 31 ZKR DUH JUDGXDWHV RI DQ DFFUHGLWHG / 31 SURJUDP DQG ZKR DUH DQ DFFHSWHG GHSRVLWHG VWXGHQW WKH QXPLQJ SURJUDP P D\ FKDOOHQJH 16*) XQGDP HQWDOV RI 1XUVLQJ E\ VXFFHVVIXOO FRP SOHWLQJ WKH IROORZLQJ FRP SRQHQWV

: UWWHQ H[DP ZLWK D VFRUH RI RUKLJKHU

&OLQLFDOLP XODWRQ LQ QXUVLQJ ODE

&RP SOHWLRQ RI D FDUH SODQQLQJ H[HUFLVH IRUWKH FKDOOHQJH H[DP SURFHVV

1RWH $ WWWWHH LV UHTXLUHG

6HH8QLYHUVLW8QGHUJUDGXDWH$GP LVVLRQV

%DFN WR7RS

3UR JUDP $FDG HP LF DQ G7HFK QFDO6WXQGDUGV

7KH UHTXLUHG QXPLQJ FRXUVHV DUH JLYHQ LQ VHTXHQFH DQG HDFK FRXUVH KDV D P LQLP XP JUDGH UHTXLUHP HQWRI &´ 6WXGHQWV P XVWGHP RQVWUDWH QDWWDQ H[DP LQDWRQ DYHUDJ RI LQ HDFK QXPLQJ FRXUVH IRUSURJUHVVLRQ

7KH VWXGHQWV P XVWDOVR VDWLVI DFWRULO FRP SOHWH WKH FOLQLFDOCFRP SRQHQWRI HDFK FRXUVH

$ QXPLQJ VWXGHQW P D\ UHSHDW D QXPLQJ FRXUVH RQO RQFH

7KH VWXGHQWV P XVWREWLQ D P LQLP XP JUDGH RI &´ LQ DOOUHTXLUHG VFLHQFH FRXUVHV

7KH VWXGHQWV P XVW P DLQWDLQ D P LQLP XP JUDGH SRLQWDYHUDJH * 3$ RI) DLOXUH WR P DLQWDLQ D * 3$ RI P D\ LQWHUIHUH ZLWK SURJUHVVLRQ

7KH VWXGHQWV P XVWFRQWLQ DOOSRFHLV RXWQHG LQ WKH 1XUVLQJ ' HSDUWPHQW6 WXGHQW+DQGERRN

&RP SOHWLRQ RI 81(+,3$$ UHTXLUHP HQWV DQG P DLQWHQDQFH RI LP P XQL] DWLRQ/ EHIRUH SDUWFLSDWLQJ DQ\ FOLQLFDO FRP SRQHQWV

$ VWXGHQW P D\ EH GLVP LVVHG IURP WKH QXUVLQJ SURJUDP IRUDQ\ RI WKH IROORZLQJ UHDVRQV

) DLOXUH WR FRP SO ZLWK DWWHQGDQFH UHTXLUHP HQWV

) DLOXUH WR FRP SO ZLWK SRFLFLHV VWDWHG LQ81(6WXGHQW+DQGERRN RU1XUVLQJ ' HSDUWPHQW6WXGHQW+DQGERRN

) DLOXUH WR REWDLQ D JUDGH RI &´ RUEHWWHULQ D QRQ HDFFUHGLWHG FRXUVH

) DLOXUH WR VDWLVI DFWRULO FRP SOHWH WKH FOLQLFDOCFRP SRQHQWRI D QXPLQJ FRXUVH

) DLOXUH WR P DLQWDLQ DQ H[DP LQDWRQ DYHUDJH RI LQ UHTXLUHG QXPLQJ FRXUVHV

) DLOXUH WR SHUFRP LQ WKH FOLQLFDOCDUHD LQ D P DQQHUWKDWVI GHP HG VDIH E\ WKH IDFXOW

) DLOXUH WR REWDLQ D JUDGH RI &´ RUEHWWHULQ D UHTXLUHG VFLHQFH FRXUVH

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Or	
EXS 479 - Research Practicum I and	3
EXS 489 - Research Practicum II	3
One Social Global Awareness Course	3
One Advanced Studies Course	3
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Dr. Frank Daly (Associate Chair)
fdaly@une.edu

Minor(s)

Financial Information

Biology Department Website

Honors

The Department of Biology offers qualified students the option of graduating with Honors in the Research Track. The department does not offer the Scholastic option. See details on the Honors homepage.

Biological Sciences Honors Research Requirements
Complete requirements for major
Maintain GPA of 3.50 or higher
HONR 180 - Introduction to Research Across the Disciplines
HONR 480 - Senior Honors Research Seminar
Honors elective (2) offered by Political Science department
Honors Thesis Proposal
Honors Thesis and public defense
Presentation at CAS Research Symposium

Contact:
Dr. Jeri Fox jlfox@une.edu or
Dr. Frank Daly fdaly@une.edu

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Minor(s)

A biology minor requires 6 biology courses, including the introductory biology series. In particular, department of biological sciences majors who wish to take a biology minor must select 4 additional courses beyond those required for their major. No biology courses can satisfy both the major and minor requirements except for the introductory 100-level courses.

Minor Required Courses
BIO 105 - Biology I: Ecology/Evolution and BIO 106 - Biology II: Cellular/Molecular
Or
BIO 104 - General Biology and one of: (BIO 105 - Biology I: Ecology/Evolution , BIO 106 - Biology II: Cellular/Molecular or BIO 150 - Introduction to Oceanography)
And
BIO 221 - Principles of Aquaculture
BIO 222 - Finfish/Shellfish Culture Techniques
BIO 223 - Health/Nutrition/Feeding Cultured Organisms
BIO 323 - Principles of Aquarium Operations Science

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Tuition and Fees

Tuition and fees for subsequent years may vary. Other expenses include books and housing. For more information regarding tuition and fees, please consult the Financial Information section of this catalog.

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8. Affective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

Candidates for selection to the Athletic Training Education Program will be required to certify with the ATEP director that they have read, understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards. Please see < Services> Disability Services for more information.

Students will be retained within the athletic training education program providing the following criteria are maintained throughout the undergraduate experience:

1. Minimum cumulative UNE GPA of 2.0.
2. Minimum cumulative GPA of 2.0 in the science foundation of the athletic training major requirements.
3. Grade point of 2.0 or better in each athletic training major required course with the ATC, EXS, PEC, or SPT prefix. Students who receive a grade point below 2.0 in an athletic training major required course with an ATC, EXS, PEC, or SPT prefix will be placed on clinical education suspension. They must repeat the course and earn a grade point of 2.0 or higher the next time the course is offered. A course may be repeated only once.
4. Minimum cumulative GPA of 2.5 in athletic training required courses with ATC, EXS, PEC, or SPT prefix.
5. Proof of successful progress toward the mastery of the clinical proficiencies and the completion of assigned clinical rotations (see: Athletic Training Student Handbook for definition of successful progress), in compliance with the requirements and guidelines of the Commission on Accreditation of Athletic Training Education (CAATE).
6. Students who fail to demonstrate appropriate professional abilities and attributes will be subject to clinical education suspension. (See Athletic Training Student Handbook for details.) Clinical education rotation suspension status: students failing to fulfill any of the above requirements will be removed from the clinical education rotation portion of the program until the deficiency is remedied. The student shall receive written notice of the suspension and possible methods of remediation from the program director and/or clinical education coordinator. Upon successful completion of remediation the student will be notified by the program director and/or clinical education coordinator in writing and removed from suspension.
7. Any student appealing a decision, or requesting a waiver or exception, should appeal to the program director. If a solution is not reached that is satisfactory to both parties, the student or other party should contact the chairperson of the Department of Exercise and Sport Performance to request a formal review.
8. Other appeals should follow the process outlined in the UNE Student Handbook.

* Academic dishonesty (policy outlined in the University Student Handbook) will not be tolerated.

Program Standards:

Students will be retained within the Athletic Training Education Program providing the following criteria are maintained throughout the undergraduate experience:

1. Minimum requirements for successful progression in years one and two as outlined in the UNE undergraduate Catalog must be met.
2. Students must achieve a minimum grade of "C" in the following courses: MAT 120, CHE 110, BIO 104, BIO 208, BIO 209, DEN 210/EXS 210, BIO 309. Failure to achieve a "C" will result in program-level probation, and may affect academic progression.
3. Students enrolled in the Professional Phase of the ATEP must maintain a minimum cumulative semester GPA of 2.5.
4. Students enrolled in the Professional Phase of the ATEP must maintain a minimum grade of "C" in each required course.
5. Students may enroll in any course a maximum of two times. The second time enrolled in a course, students must achieve a minimum grade of "B-".

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Curricular Requirements

	Credits
First Year	30
BIO 104 - General Biology	4
BIO 208 - Introduction to Anatomy and Physiology I	4
ENG 110 - English Composition	4
IHS 110 - Introduction to Health Professions	2
IHS 120 - Health Care Issues	1
MAT 120 - Statistics	3
PSY 105 - Introduction to Psychology	3
SOC 150 - Introduction to Sociology	3
One (1) Explorations Course	3
One (1) Social Global Awareness (SGA) Course	3
Second Year	32

ATC 101 - Prevention and Care of Athletic Injury	3
ATC 252/252L - Diagnosis of Athletic & Orthopaedic Injuries I w/ Lab	3
ATC 298 - AT Clinical Practicum I	3
ATC 333 - Gross Anatomy	3
BIO 209 - Introduction to Anatomy and Physiology II	4
CHE 110 - General Chemistry I	4
IHS 210 - Methods of Scholarly Inquiry	3
IHS 310 - Ethical Practice in Health Professions	3
MAT 180 - Precalculus	3
PSY 250 - Lifespan Development	3
Third Year	33
ATC 352/352L - Diagnosis of Athletic & Orthopaedic Injuries II w/ Lab	3
ATC 398 - Athletic Training Clinical Practicum II	4
ATC 399 - Athletic Training Clinical Practicum III	4
ATC 420 - Research Methods	3
ATC 342/342L - Physical Agents in Athletic Health Care w/ Lab	3
ATC 332/332L - Rehabilitation Techniques in Athletic Health Care w/Lab	3
BIO 309 - Pathophysiology	3
IHS 220 - Nutrition	3
EXS 310 - Kinesiology & Biomechanics w/ Lab	3
PHY 110 - General Physics I w/ Lab	4
Fourth Year	32
ATC 306 - Psychology of Sport & Exercise	3
ATC 450 - Medical Aspects of Sport	2
ATC 480 - Organization & Administration of Athletic Training Programs	2
ATC 495 - Seminar in Athletic Training	1
ATC 498 - Athletic Traning Clinical Practicum IV	5
ATC 499 - Athletic Training Clinical Practicum V	4
EXS 320 - Exercise Physiology w/ Lab	3
EXS 340 - Concepts of Strength & Conditioning	3
NSG 355 - Pharmacology	3
One (1) Art Course (May be ART, ARH or MUS course)	3
One (1) Advanced Studies (ADV) Course	3
Minimum required total credits	127

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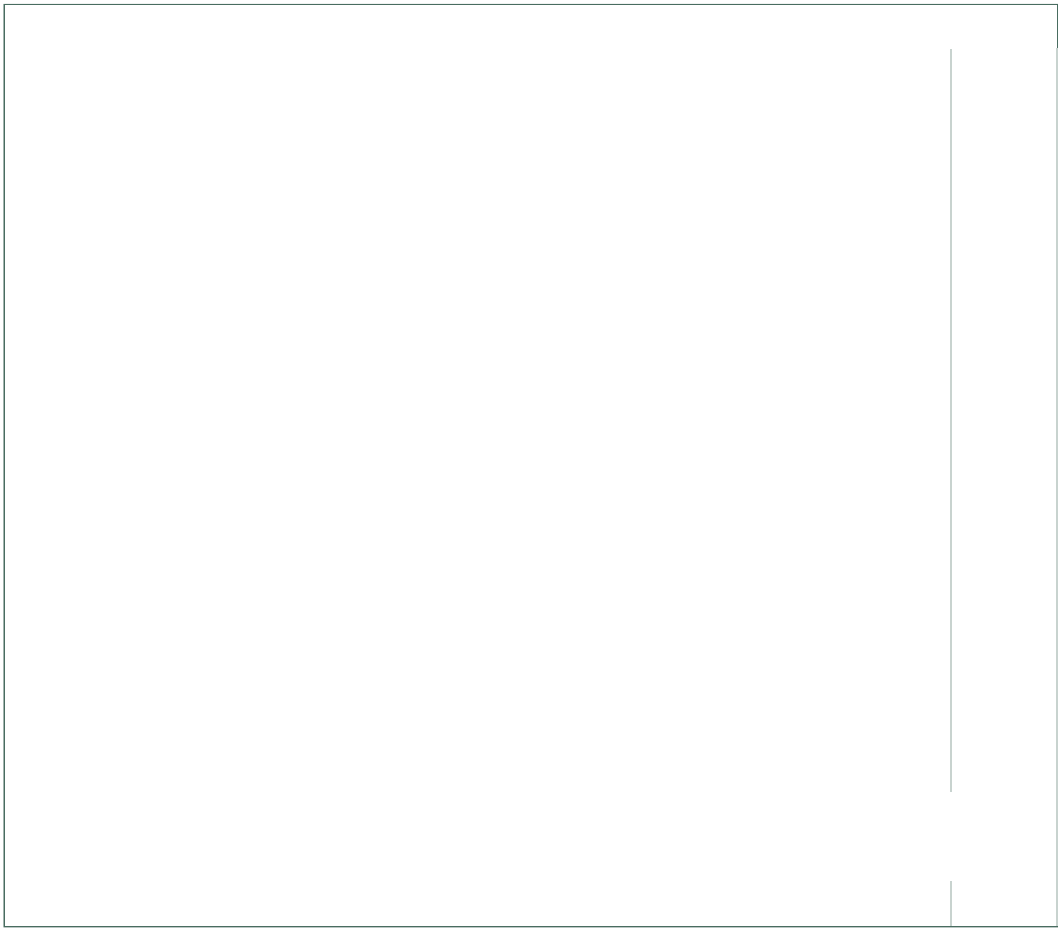
Preferred conditions for entry into the biochemistry major are completion of at least three years of high school mathematics and three years of high school science, including biology, chemistry and physics. See Undergraduate Admissions11 y



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The Department of Chemistry & Physics offers qualified students the option of graduating with Honors in the Research Track. The department does not offer the Scholastic option. See the Honors Program home t

While each student may work closely with an academic advisor, he or she must retain individual responsibility for meeting requirements in this catalog and for being aware of any changes in provisions or requirements.

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UNIVERSITY CATALOG 2010-2011

Mission

Accreditation

Administration

Board of Trustees