University Academic Catalog 2008-2009

The University of New England

The University of New England is j9sf i *-:iyyy niversity nsi

Westbrook College Campus is a classic New England campus located in suburban Portland, Maine and designated as a national historic district.

University Mission Statement

The University of New England is an independent, entrepreneurial institution committed to academic excellence and the enhancement of the quality of life for the people, organizations, and communities it serves. The purpose of the University is to prepare students for meaningful and rewarding careers, lifelong learning, and enlightened lives. The University fosters critical inquiry through a student-centered, academic environment rich in research, scholarship, creative activity, and service while providing opportunities for acquiring and applying knowledge in selected clinical, professional, and community settings.

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 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 Nursing.
- Dental hygiene programs are accredited by the American Dental Association Commission on Dental Accreditation.
- The Social Work Program is accredited by the Commission on Accreditation on the Council of Social Work Education.
- The School of Nurse Anesthesia is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs, ns Administration, and graduates of the University meet the educational requirements for officer candidacy in all branches of the armed forces.
- The University is authorized under Federal law to enroll non-immigrant alien students.
- The University holds membership in the New England Association of Schools and Colleges, the Maine Consortium of Health Professionals, the Council of Independent Colleges egesen
- The financial requirements of the University, changing costs and other matters may require an adjustment of charges and expenses listed herein. The University reserves the right to make such adjustments to charges and expenses as may from time to time be necessary in the opinion of the Board of Trustees, up to the date of 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, 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.

University Campus

Hills Beach Road
Biddeford, Maine 04005-9599

207-283-0171

Westbrook College Campus

716 Stevens Avenue
Portland, Maine 04103-7225

207-797-7261

Notice and Responsibilities Regarding this Catalog

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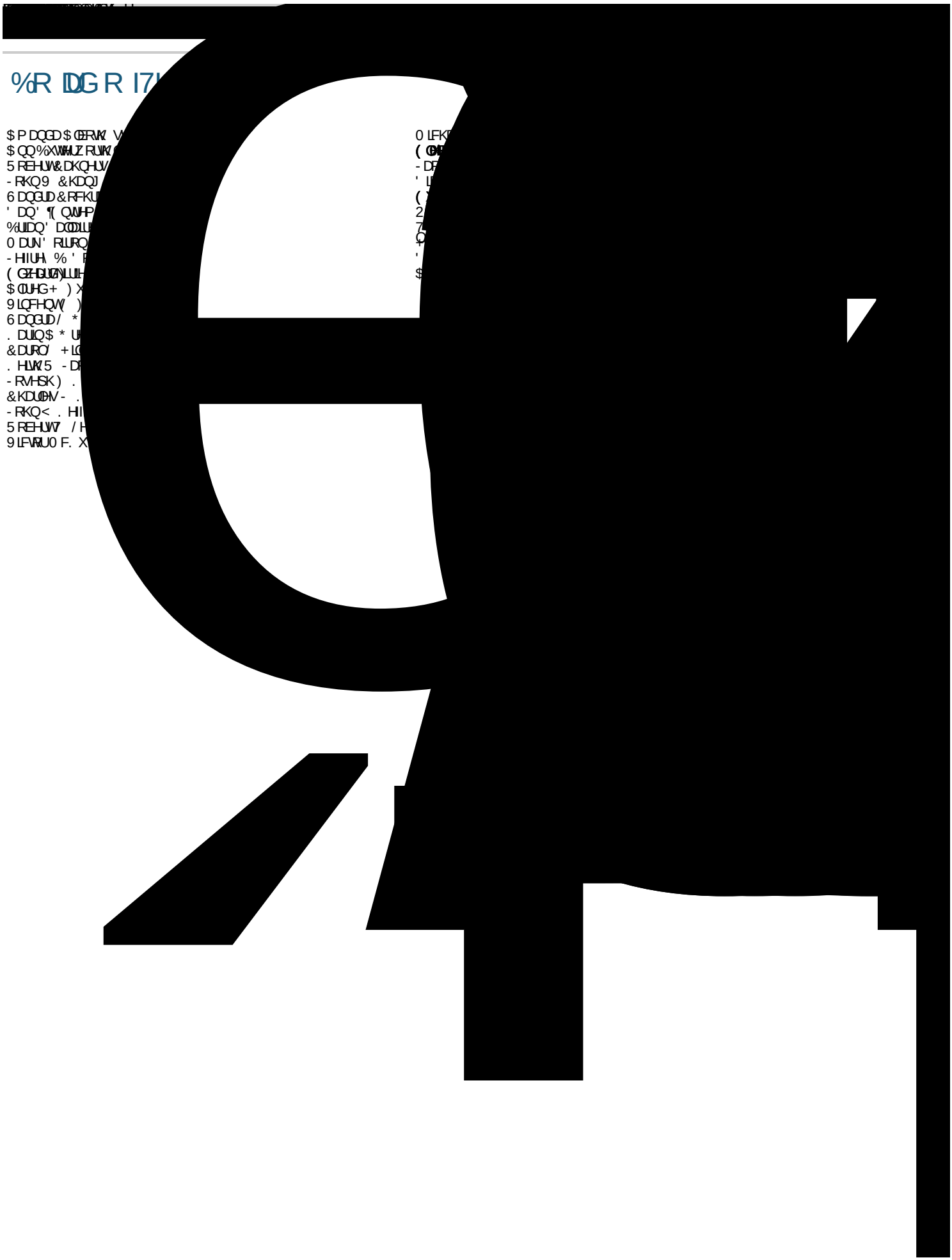

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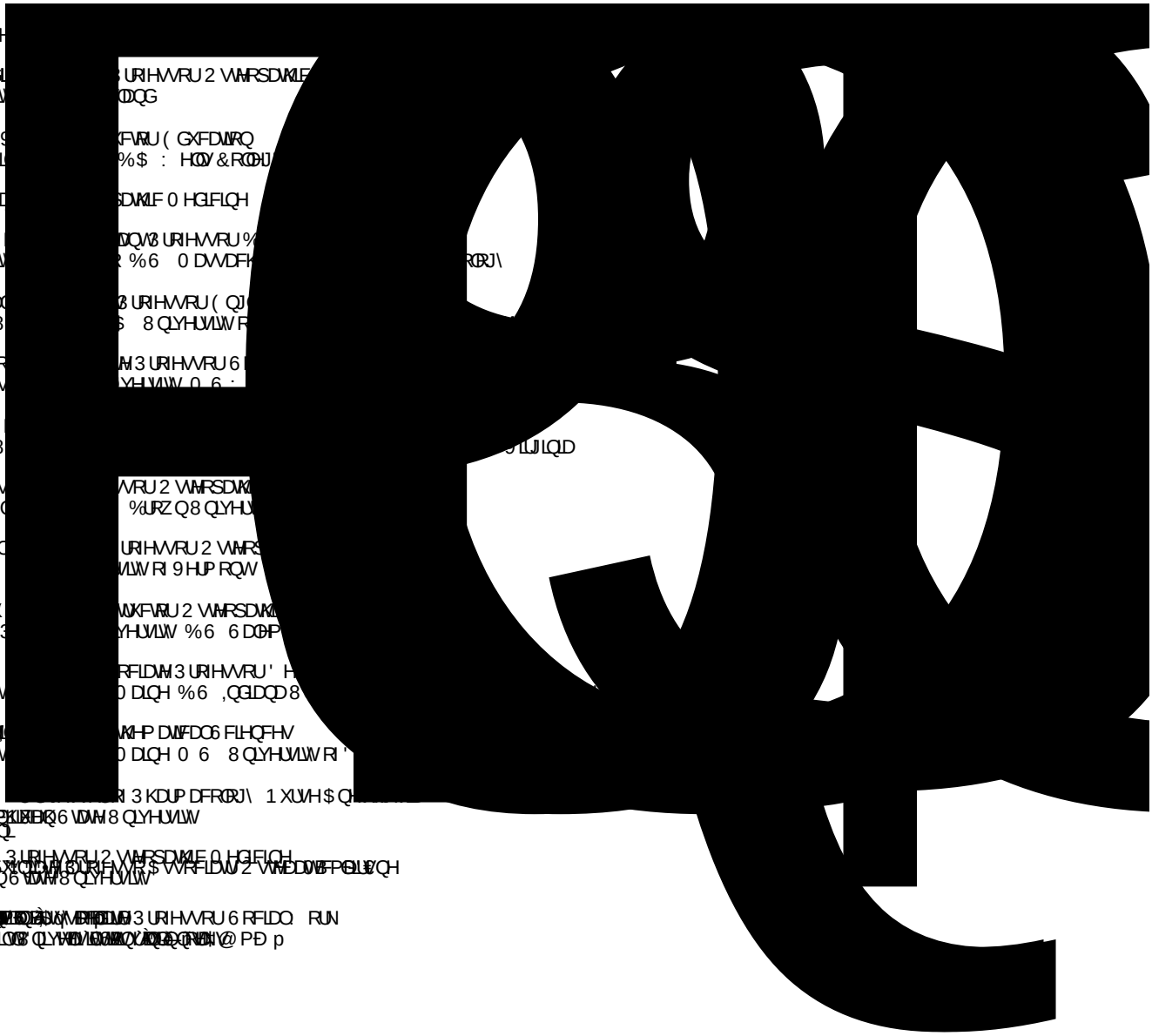

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3H]XOR &KULVWRSKHU $VVLVWDQW3URIHVVRU2 VWRSDKLF0HGLFLQH
' 2 81(&20 %$ 6WDWH8QLYHUVLW RI1HZ <RUN 6WRQ\ %URRN

3LHUFH +DWW &OLQLFDO GXFDWRU,QVWUXFWRU([HFXWLYH DQG6SRUW3HUIRUPDQFH
0 (G8QLYHUVLW RI0DLQH2 URQR %6 8QLYHUVLW RI0DLQH) DUPLQJWRQ

3LFKDUG ' DYLG& 3URIHVVRU6RFLDO RUN
3K' 9LUJLQLD&RP P RQZHDOWK8QLYHUVLW 0 $ 8QLYHUVLW RI0DLQH %$ 8QLYHUVLW RI0DLQH

3URNRSLZ ,JRU &OLQLFDO$VVRFLDWH3URIHVVRU2 VWRSDKLF0HGLFLQH
0 ' 8QLYHUVLW RI7RURQWR 3K' 4XHHQV8QLYHUVLW

5DQG - &KDUH &OLQLFDO3URIHVVRU2 VWRSDKLF0HGLFLQH
' 2 3&20

5DQNLQ 1DQF\ ,QVWUXFWRU3V\FKRORJ\
0 $ 8QLYHUVLW RI9HUPRQW%$ 6 8 1 < DW%XIIDOR

5HHVH 5LFKDUG 3URIHVVRURI3KDUPDFRORJ\ 1XUVH$QHVWKHWLD
0 ' +DUYDUG0HGLFDO6FKRRO %6 ' DUWPRXWK0HGLFDO6FKRRO % ' DUP RXWK

5HHVH 5LFKDUG &OLQLFDO3URIHVVRU2 VWRSDKLF0HGLFLQH
0 '

5LFKDUGVRQ 0DUWQ &OLQLFDO3URIHVVRU2 VWRSDKLF0HGLFLQH
' 2 . &26

5LQHV (P LO &RXUVH &RRUGLQDWRU 3 XEOLF + HDOWK
0 3 + 8QLYHUVLWLVRI6RXWK&DURODQD %\$ 8QLYHUVLWLVRI1HZ + DP SVKLUH

5L]] R &KULVWRSKHU &OLQLFDO(GXFDWRU&OLQLFDO(GXFDWRQ&RRGLQDWRU ([HFXWLYH DQG6SRUWV0HGLFLQH
0 6 ,QGLDQD6WDWH8QLYHUVLW %6 + DUWZLFN&ROOHJH

5REHUWVRQ &OL \$VVLVWDQW UHFWRU&OLQLFDO\$VVLVWDQW3URIHVVRU1XUVH\$QHVWKHWLD
0 6 &51\$ &ROXP EL D8QLYHUVLW %61 8QLYHUVLWRI9LUJLQLD

5REHUWVRQ &\QWKLD &OLQLFDO\$VVLVWDQW3URIHVVRU2 VWHRSDWKLF0HGLFLQH
0 ' 7XIWV8QLYHUVLW6FKRRO\$UWVRQ &OLQLF8QLYHU

6RXWKZLFN / LVD $VVLVWDQW3URIHVVRU$FDGHPLF &RRUGLQDWRU3K\VLFDO$VVLVWDQW
03$6 8QLYHUVLWRI1HEUDVND %6 ' HV0RLQHV8QLYHUVLW

6SHDU1RQD &OLQLFDO$VVRFLDW3URIHVVRU1XUVLQJ DQG+HDOWK6HUYLFH0DQDJHPHQW
3K' F 8QLYHUVLWRI0DVVDFKXVHWW06 %RVWRQ8QLYHUVLW%61 6DLQW-RVHSK&ROOHJH

6W2XU3DXOHWWH $VVRFLDW' HDQ &ROOHJHRI$UWDQG6FLHQFHV 0DUHP DUFDG6FLHQFHV
06 8QLYHUVLWRI6RXWKHUQ0DLQH %RVWRQ&ROOHJH%61 6W-RVHSKV&ROOHJH

6WDEOHRUG 6XH &RXUVH&RRUGLQDWRU3XEOF+HDOWK
06 %+XVWRQ&ROOHJH03+ 8QLYHUVLWRI0LFKLJDQ %$ 2EHUOLQ&ROOHJH

6WHQ$GDP V 0LFKHOH $VVLVWDQW3URIHVVRU(QYLURQPHQWDO6WXGLHV
3K' 8QLYHUVLWRI:DVKLQJWRQ0DGLVRQ06 8QLYHUVLWRI:DVKLQJWRQ0DGLVRQ 0(G /HVOLH8QLYHUVLW %$ 6ZDUWKPRUH
&ROOHJH

6WHYHQVRQ *HRQ: $VVLVWDQW3URIHVVRU2VWHRSDWKLF0HGLFLQH$VVLVWDQW3URIHVVRU3V\FKRORJ\
3K' $PHULFDQ8QLYHUVLW0 $ $PHULFDQ8QLYHUVLW %$ 0XKOHQEHUJ&ROOHJH

6WRFNZHOO(OL DEHWK &OLQLFDO$VVLVWDQW3URIHVVRU2VWHRSDWKLF0HGLFLQH
' 2 81(&20 %$: HOHVOH\ &ROOHJH

6WKEEV -RKQ $VVLVWDQW3URIHVVRU&KHPLVWU DQG3K\VLFV
3K' 8QLYHUVLWRI0LQQHVRWD %$ 8QLYHUVLWRI0LQQHVRWDDW0RUULV

6XOOLYDQL -DP HV $VVLVWDQW3URIHVVRU%LRORJLFDO6FLHQFHV
3K' 8QLYHUVLWRI1HZ +DPSVKLUH 06 ' H3DXO8QLYHUVLW 06 1RYD6RXWKHDVWHUQ8QLYHUVLW %6 ' HQLVRQ8QLYHUVLW

6XVNH &KHVWHU &OLQLFDO$VVLVWDQW3URIHVVRU2VWHRSDWKLF0HGLFLQH
' 2 .&26

6ZHQ\ 0DUN $VVLVWDQW3URIHVVRU&KHPLVWU DQG3K\VLFV
3K' 8QLYHUVLWRI9HUPRQW%$: HVWHUQ6WDWH&ROOHJH RI&RORUDGR

6\YLQVNL &KULVWRSKHU /DERUDWRU ,QVWUXFWRU&KHPLVWU DQG3K\VLFV
06 &ODUNVRQ8QLYHUVLW %6 &ODUNVRQ8QLYHUVLW

7HQHQEDXP $QGUHZ $VVLVWDQW3URIHVVRU2VWHRSDWKLF0HGLFLQH
' 2 81(&20 %6 8QLYHUVLWRI9LUJLQLD

7KRP SVRQ &KDUOHV 3URIHVVRU&UHDWLYH DQG) LFH$UWV
0)$ 7\OHU6FKRRORI$UW%6 %DOG6WDWH8QLYHUVLW

7KRP SVRQ . DWKUQ $VVRFLDW3URIHVVRU2VWHRSDWKLF0HGLFLQH
3K' &RUQHOO8QLYHUVLW %6 8QLYHUVLWRI' HQYHU

7LOOEXU &KDUOHV $VVLVWDQW3URIHVVRU&KHPLVWU DQG3K\VLFV
3K')ORULGD6WDWH8QLYHUVLW 06 8QLYHUVLWRI7H[DV $XVWQ %6 8QLYHUVLWRI7H[DV

7RQH\ &DUO $VVLVWDQW3URIHVVRUDQG3URMHFW LUHFWRU&HQWHUIRU7UDQVFXOWXUDO+HDOWK 3K\VLFDO$VVLVWDQW
3$ ' XNH8QLYHUVLW $ % * HRUJLD6WDWH8QLYHUVLW

7UDYLV 6WHYHQ $VVRFLDW3URIHVVRU%LRORJLFDO6FLHQFHV
3K' 1RUWKHUQ$UL]RQD 06 1RUWKHUQ$UL]RQD %6 6RXWKHUQ2UHJRQ8QLYHUVLW

7VRPLGHV 0HOLVVD/ $VVLVWDQW3URIHVVRU3K\VLFDO$VVLVWDQW
063$ 8QLYHUVLWRI1HZ (QJODQG %$ %RZGRLQ&ROOHJH

7XUFDWR 1LQD0 ' LUHFWRU$VVLVWDQW3URIHVVRU1XUVH$QHVWKHWLD 1XUVH$QHVWKHWLD
061$ 8QLYHUVLWRI1HZ (QJODQG %61 &ROOHJHRI6W7HUHVD

7XWWH-HQQLHU $VVRFLDW3URIHVVRU(QJOLVK
3K' 8QLYHUVLWRI&DOLIRUQLD 6DQ' LHJR 0$ 8QLYHUVLWRI&DOLIRUQLD 6DQ' LHJR %$ 8QLYHUVLWRI&DOLIRUQLD ,UYLQH

9DFKRQ / LRQHO &OLQLFDO$VVLVWDQW3URIHVVRU' HQWDO+\JLHQH
' ' 6 0DUXHWWH8QLYHUVLW6FKRRORI' HQWLVWU

9DQ' HUEXUJK $UWKXU &OLQLFDO3URIHVVRU2VWHRSDWKLF0HGLFLQH
' 2 .&26

9DXJKQ -DP HV 3URIHVVRU2VWHRSDWKLF0HGLFLQH
3K' 8QLYHUVLWRI1HZ +DPSVKLUH

9HVHQD -DP HV $VVRFLDW3URIHVVRU&KHPLVWU DQG3K\VLFV
3K' 8QLYHUVLWRI&DOLIRUQLD ' DYLV 06 8QLYHUVLWRI&DOLIRUQLD ' DYLV %$ &ODUN8QLYHUVLW

: DHFNHU6WSKDQLH $VVLVWDQW3URIHVVRU2VWHRSDWKLF0HGLFLQH
' 2 3KLODGHOSKLD&ROOHJHRI2VWHRSDWKLF0HGLFLQH

: DOOQJIRUG &UDLJ $VVRFLDW3URIHVVRU2VWHRSDWKLF0HGLFLQH
' 2 .&&20

: DQDVWDVLD0RQG &OLQLFDO$VVLVWDQW3URIHVVRU &RRUGLQDWRURI&RPPXQLW\2 7 &OLQLF 2 FFXSDWLRQDO7KHUDS\
0 6 %6 6DUJHQW&RQWHHU$OOHG+HDOWK3URIHVVLRQV %RVWRQ0 °

: HVW7KDGGHXV $GYDQFHG6WXGLHV 3RODUDFWLYLW\ DFURVV 3RODUDFH
- ' 6WHPRQ8QLYHUVLW\&RPPXQLFDWLRQ/DZ %$ 8QLYHUVLW\RI. HQWXFN\

: LQVWRZ ' DYLG $GYDQFHG6WXGLHV 2VWHRSDWKLF0HGLFLQH
%6 6\UDFXVH8QLYHUVLW\

: LQVWRZ ' DYLG $GYDQFHG6WXGLHV 3XEOLF+HDOWK
%$ 6\UDFXVH8QLYHUVLW\

<RXQJ *HRUJH $GYDQFHG6WXGLHV (QJODQG
3K' <DOH8QLYHUVLW\0 $ <DOH8QLYHUVLW\%$ ' XNH8QLYHUVLW\

1RWHFDQG5HVSRQVLELOLWLHV5HJDUGLQJ WKLV &DPSXV

7KLV &DPSXV GRFXPHQW WKH DFDGHPLF SURJUDPV SROLFLHV DQG DFWLYLWLHV RI WKH 8QLYHUVLW\ RI 1HZ (QJODQG IRU WKH DFDGHPLF \HDU 7KH LQIRUPDWLRQ FRQWDLQHG KHUHLQ DFFXUDWHO\ GHVFULEHV WKH SXEOLFDWLRQ$XJXVW

7KH8QLYHUVLW\RI1HZ (QJODQG UHVHUYHV WKH ULJKW WR LQWURGXFH PRGLILFDWLRQV RU DPHQGPHQWV RI DQ\ SURJUDPV FDOHQGDU RUDFDGHPLF VFKHGXOH ZKHQHYHU GHHPHG GQHFHVVDU\ RUGHVLUDEOH LQFOXGLQJ FKDQJHV LQ FRXUVH FRQWHQW WHDFKLQJ VWDII DQG VXFK FDVH JLYLQJ VXFK QRWLFH WKHUHRI DV LV UHDVRQDEO\ SUDFWLFDEOH XQGHU WKH FLUFXPVWDQFHV

: KLGH HDFK VWXGHQWP D\ ZRUN FORVHO\ ZLWK DQ DFDGHPLF DGYLVRUDFXuëS HDF`EKDQJHV RI DQ\ UBH DQEDQQV

8 Q GUHUDG XWH

- 3 V\ FKRORJ\
- 3 V\ FKRORJ\ DQG 6 RFLDO 6 HDVRQV
- 6 RFLRORJ\
- 6 SRUW0 DQDJHP HQW

0 LQRUV

- $ QLP DO 6 WXGLHV
- $ SSOLHG ([HUFLVH 6 FLHQFH
- $ TXDFXOWXUH
- %LRORJLFDO 6 FLHQFHV
- %XVLQHVV $ GP LQLVWUDWLRQ
- &KHP LVWU
- &RP P XQLFDWLRQV
- &UHDWLYH DQG) LQH $ UW
- (QJOLVK
- (QYLURQP HQWDO 6 WXGLHV
- * HRJUDSKLF ,QIRUP DWLRQ 6 \ VWHP V
- + HDOWK 6 HUYLFHV 0 DQDJHP HQW
- + LVWRU\
- / DZ $ P HULFDQ 6 WXGLHV
- 0 DUNH %LRORJ\
- 0 DWKHP DWLFV
- 0 HGLFDO %LRORJ\
- 3 KLORVRSK\
- 3 RZHUFDO 6 FLHQFH
- 3 V\ FKRELRORJ\
- 3 V\ FKRORJ\
- 3 V\ FKRORJ\ DQG 6 RFLDO 6 HDVRQV
- 6 RFLRORJ\
- 6 SRUW 0 DQDJHP HQW
- : RP HQV 6 WXGLHV

1 RWH DQG 5 HVSRQVLELOLWLHV 5 HJ DUGLQJ WKLV &DWDORJ

7KLV &DWDORJ GRFXP HQW WKH DFDGHP LF SURJUDP V SROLFLHV DQG DFWLYLWLHV RI WKH 8 QLYHUVLW\ RI 1 HZ (QJODQG IRUWKH DFDGHP LF \ HDU 7KH LQIRUP DWLRQ FRQWDLQHG KHUHLQ IS DFFXUDWH DV RI GDWH RI SXEOLFDWLRQ $ XJXVW

7KH 8 QLYHUVLW\ RI 1 HZ (QJODQG UHVHUYHV WKH ULJKW WR LQW VROH HQGJP HQW P DNH FKDQJHV RI DQ QDWXUH LQ LW SURJUDP V FDOHQGDU RUDFDGHP LF VFKHGXOH ZKHQ HYHU LW G HHP HG QHFHVDU RUGHVLUDEOH LQFXGLQJ FKDQJHV LQ FRXUVH FRQWHQW WKH UHVFKHGXOLQJ RI FODVVHV ZLWKRUZLWKRXW{ WKQGLQJ WKH DFDGHP LF WHUP FDQFHOODWLRQ RURWKHUDFDGHP LF DFWLYLWLHV LQ DQ\ VXFK FDVH JLYLQJ VXFK QRWLFH WKHUHR DV LV UHDVRQDEO\ SUDFWLFDEOH XQGHUWKH FLUFXP VWDQFHV

: KLOH HDFK VWXGHQW P D\ ZRUN FORVH0 ZLWK DQ DFDGHP LF DGYLVRU KH RUVKH P XVWWHHDLQ LQGLYLGXDOHVSRQVLELOLW IRUP HHWQJ UHTXLUHP HQW LQWKLV FDWDORJ DQG IRUEHLQJ DZ DUH RI DQ\ FKDQJHV LQ SURYLVRQV RUUHTXLUHP HQW

7Z R &DP SXVHV %LGGHRUG DQG 3 RUWODQG 0 DLQH

&RS\ UJKW 8 QLYHUVLW\ RI 1 HZ (QJODQG

8QLYHUVLWRI1HZ(QJODQG &DVWOHU 8QGHUJUDG $ƩLVHQ(

5HFRPPHQGHG
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' $17(6 ([DP
(–0ñ7)h F Y p

%DFKHORU¶V 0DVWHU¶V RU' RFWRUDOGHJUHHIURP DQDFFUHGLWHG8 6 FROOHJH RUXQLYHUVLW\P HHW(QJOLVK SURILFLHQF\ UHTXLUHPHQW
6SHFLILF (QJOLVK GDQJXDJH SURILFLHQF\ FDQEHIRXQGDWDGP LVVLRQV LQIRSURILFHQF\ DVS

81(DSVR&ZDLYHVV WKH(QJOLVK SURILFLHQF\ UHTXLUHPHQWZKRJUDGXDWHIURP DQDFFUHGLWHG VKRROLQ(QJOLVK
VSHDNLQJ FRXQWULHV $QJXLOOD $QWLJXD %DUEXGD $XVWUDOLD %DKDPDV %DUEDGRV %HOL H %HUPXGD %UXQHL
H[FHSW XHEHF &DPEULGJH ' RP LQLFD) DONODQG,VODQGV ' RPLQLFD) LML * UHQDGD * XDP * X\DQD ,UHODQG - PDLFD RWHU: HVW
,QGLHV/JLEUDOWDU*UHQDGD*XDP*X\DQD+RQJ.RQJ,UHODQG-DPDLFD0DOWD1HZ=HDODQG6W.LWWV 1HYLV 6W/XFLD 6W9LQFHQW7UQLGDG 7REDJR
7XUNV &DLFR,VOH 8QLWHG.LQJGRP DQG9LUJLQ,VODQGV

,QWHUQDWLRQDO6WXGHQW6HHV$GPLVVLRQV oUHTXLUHPHQWV DUXQWH 0 V DW H Q U

9HWHUDQ V

3URJUDPV6SHFLILF5HTXLUHPHQWV8QLYHUVLW\RI1HZ (QJODQGKDVHEHHQDSSURYHGIRUSHUVRQV HQJLEOHIRU9HWHUDQV$GPLQLVWUDWLRQ%HQHILWV E\ WKH
0DLQH6WDWH$SSURYLQJ $JHQF\ IRU9HWHUDQV (GXFDWLRQ3URJUDPV 7KH8QLYHUVLW\HQFRXUDJHV DFWLYH DQGUHWLUHG P LOLWDU\
1DWLRQDO* XDUGDQGUHVHUYLVW DVZHOODV YHWHUDQV WKEHFRPHDZDUH WKDWWKHVH) RIIXUWHULQIRUP DWLRQ FRQFHUQLQJ
YHWHUDQV DGP LVVLRQV DQGEHQHILW S0HDVHFRQWDFW8QLYHUVLW5HJLVWUDU

$SSOLFDQWZKR DUHUHTXHVWLQJ9HWHUDQV$GPLQLVWUDWLRQHGXFDWLRQDOBENEHQHILW DUHUHTXLUHGWRKDYH DOOSUHYLRXV SRVWHFRQGDU\
HGXFDWLRQDQGWUDQVFULSW
$SSOLFDQWZLWK P LOLWDU\ VHUYLFH VKRXOGVHQGD FRS\ RI DQ$UP\ $&(5HJLVWU 7UDQVFULSW6HUYLFH $$576 RUD60$57
6DORU0DUQH&RUSV$P HULFDQ&RXQFLORQ(GXFDWLRQ5HJLVWU 7UDQVFULSWSWRWKH8QLYHUVLW5HJLVWUDU IRUFUHGLWHYDOXDWLRQ

9HWHUDQVWXGHQWVFDQUHFHLYH DSSOICDWLRQ DQGP DLQWDQFH DVBRUp UDQDOEHQHFH UHWUHG IUIXUWHV GVLQW/LRU

8Q GUHUDG XWHM)LQ LQ HDO$LG

7KH8QLYHUVLWR 1HZ (QJODQG)LQDQFLDO$LG2IILFHLV FRP P LWWHG WR DVVLVWQJ VWXGHQWV DQG IDP LOLHV LQ ILQGLQJ WKH ILQDQFLDO P HDQV QHFHVVDU VR DFKLHYLQJ WKHLUHGXFDWRQDOJRDOV $W8 1(P RUHWKDQ SHUFHQWR RXUVWXGHQWV UHFHLYH VRP HIRUP RI ILQDQFLDODVVLVWDQFH : HEHOLHYHWKDWWKHILQDQFLQ RI DFROOHHGXFDWRQVKRXOEHDSDUWQHUVKLSEHWZHHQWKH VWXGHQWV IDP LO DQGWKH8QLYHUVLW : HHQFRXUDJH\ RX VR YLVLWRXUZHEVLWH\ ZKHUH\ RX P D\ REWDLQ DGGLWRQDOLQRUP DWRQ DERXW RXUILQDQFLDOGLÀ

8 Q GUHUDG XWM) LQ DQ EDO,QI RUP DWRQ

' HSRVLW / HDYH R \$ EVHQFH 3 RDF\
) HHV 3 D\ P HQW2 SWRQV
: LWKGUDZ DO7 XLWRQ5 HXQG3 RDF\ \$ GGLWRQDO QRUP DWRQ

8 Q GUHUDG XWM 7X WR QDQ G) HHV

) XOO7LP H) DOO 6 SULQJ 7RWO
7XLWRQ
5 RRP DQG%RDUG
* HQHUDO6 HUYLFHV) HH
7RWDO) XO7LP H

8 QLYHUVLW& DP SXV RQ IRU * HQHUDO6 HUYLFHV) HHIRU: HVWBURRN &RQHJH & DP SXV LV IRUQH\ HDU

6 WXQGDUG' RXEOH2 FFXSDQF\ Ra0Ð @

8QLYHUVLWRI1HZ(QJODQG &DPEULGJH 8QGHUJUDG)LQDQFLDO&RUUHVSRQGHQW

DEVHQFH ZLOO UHVXOW LQ XQGHUVWDQGV WKH VXGHQW VXEMHFW WR 5HXQG3RDF\ )LQXHUXRQ RQ WKH GDWH GUHGZLOO UHVXOW DZLWKGUDZDO&IURP WKH8QLYHUVLW\

$ VWXGHQW WKHP LOLDU UHVHUYHV ZLOEHJUDQWGDXOHDYHRI DEVHQFHWKLRXGHDYH GXW ZKLOH DWWHQGLQJ FRXUVHVGXULQJ DQ JLYHQ VHPHVWU5RRP pLFRXUVHVGXULQ H H

8QLY HUVLWL1HZ (QJODQG &DPEULGJH 8QGHUJUDG)LQDQFH&RUP DWLRQ

KWWS UHJLVWUDU XQGHUJUDGILQDQFHDCDV S

8 QGHUJUDGXDWH $FDGHPLF 3RRO\ DQG 5 HJXODWLRQV

* UDGXDWH DQG 5HVHDUFK\ 5HTXLUHPHQWV IRU 8 QGHUJUDGXDWHV

3 HUVRQV WR * UDGXDWH DQG 5HFHLSWV ' LSORPD

$FDGHPLF / RDG

5 HJLVWUDWLRQ DQG (QURROPHQW &RQVLGHUDWLRQ

&ODVVLILFDWLRQ

&ODVV $VVLJQPHQW

$VKEHUF &RP SHWLWLRQ DQG &ODVV $VVLJQPHQW

([DP LQDWLRQV

* UDGLQJ 6\VWHP

$ XGLWRU8 RQF\

3 DVV) DLO8 RQF\

,QFRP SOHWH3 RQF\

&RXUVH: LWKGUDZDO8 RQF\

/ HDYH RI $EVHQFH3 RQF\

8 QLYHUVLW: LWKGUDZDO

5 HSHDW&RXUVH3 RQF\

&RXUVH: RUN DV$ QRWHU,QVWUXFWLRQ

6 HP HVWHUDQG 7HUP * UDGH5 HSRUWV

$ FDGHPLF 3UREDWLRQ DQG' LVP LVVDO

$FDGHPLF + RQRUV

$ OSKD &KL1 DWRQDO&RQGXH+ RQRU6RFLHWLHV

&LWDWLRQ RI $FKLHYHP HQWVW UDGXDWLRQ

' HFODUDWLRQ DQG &KDQJH RI 0 DWU

$FDGHPLF 0 LQRUV

6 WXGHQW$ GYLVLQJ

6 WXGHQW(QUROP HQW6 WDWXV

6 WXGHQW5 HFRUGV DQG 7UDQVFULSWV

6 WXGHQW$ FFHVV DQG$ QQXDO1 RWLFDWLRQ

' LUHFWRU ,QIRUP DWLRQ DQG' LVFORVXUH

5 HVSRQVH 7LP H DQG(QG RI 7HUP 3 URFHVVLQJ

7UDQVFULSWV

* UDG XWR Q5 HT XUHP HQ WV R U8 QGHUJUDGXDWHV

7KH DFDGHP LF UHTXLUHP HQWV RXWOLQHG LQ WKH FDWDORJ DWWKH WP H RI D VWXGHQWV P DWUFXODWLRQ LQWR D SURJUDP RI VWXG\ DUH JHQHUDOO QRP DWLY H IRUJUDGXDWH ,I D VWXGHQW LWKGUDZ V RUV GLVP LVVHG IURP VKH8 QLYHUVLW DQG VXEVHTXHQW UHQWU\ KH VKH P XVW REVHUYH WKH FDWDORJ UHTXLUHP HQWV LQ HIHFWDWUHQW

$ OWRXJK DFDGHP LF DGYLVRV DUH DYDLODEOH WR DVVLVW WXGHQWV LQ IXOILOLQJ P DWRUDQG JUDGXDWH UHTXLUHP HQWV WKH XOWP DW UHVSRQVLELOLW IRUWKH VH P DWWHU UHVW Z LWK WKH VWXGHQW

$ OXQGHUJUDGXDWH VWXGHQW HQWHULQJ WKH 8 QLYHUVLW IDOOV H[RUDWWHPSW DQG FUHGLW IRU DGYDQFHG FRXUVHV

$ P LQLP XP RI FUHGLW IRUD EDFFDOXUHDW GHYHOSURJUDP DQG FUHGLW IRUDQ DVVRFLDW GHYHOSURJUDP) RUVSHFLILF FUHGLW VH HSURJUDP UHTXLUHP HQWV OVWG XQGHUHDFK GHJUHH P DWU 7KH P LQLP XP UHTXLUHG FUHGLW DUH QRUP DOO DULLYHG DWE\ D GHILHG FRP ELQDWRQ RI

D 8 QLYHUVLW FRUH UHTXLUHP HQW VR H[SORUH LP SRUWDQW FRQJH WKH HV GHYHORS FUXFLDO VNLOV DQG SUHSDUH IRUDI HQJ GHUDQLQ

E 3 URJUDP RUSURHVLRQDO UHTXLUHP HQW VR FRP SOHWH FXUUFXOD HVDEDLVKHG E\ WKH DFDGHP LF GHSDUW HQWHVSRQVLEOH IRUWKH P DWRUDUHD RI VWXG\

F * HQHUDO HOHFWLYH FUHGLW VR HQFRXUDJH DGGLWRQDO WXG LQ DUHDV RI LQWHUHVW DQG VR FFXP XODW FUHGLW UHTXLUHG IRUD GHJUHH

6 WXGHQW DFWRU FRP SOHWRQ RI WKH FRXUVH WUDQGDUGV DQG VPSHFLILF UHTXLUHP HQWV LQ WKH VWXGHQW P DWUSURJUDP 6 HH VPSHFLILF GHJUHH P DWUUHTXLUHP HQWV LQ WKLV FDWDORJ

) RXUW VHQLRU \HDULQ UHVLGHQFH

6 XEP LWWLQ E\ WKH VWXGHQWRI D 5HTXHVWWRU' HJUHH QR ODWHU WKDQ - DQXDU WK SURJUWRWLQWHQGHG FRP P HQFHP HQW

6 WXGHQW DFWRQ RI DOO %XVLQHVV 2 IILFH REOJDWRQV

0 LQLP XP FXP XODWLYH * 3$ RI + LJKHUJUDGH SRLQWVHTXLUHP HQWV P D\ DSSO LQ FHUWLQ SURJUDP V 5 HHUWR GHSDUWP HQWDODQG GHJUHH P DWRUUHTXLUHP HQWV

1 RWHV

$ IRUW\ HDUVWXGHQWZKR H[SHFW WR FRP SOHWH GHJUHH UHTXLUHP HQWV E\ WKH FRQFOXVLRQ RI WKH IROOZLQJ IDOOVHP HVWHUZ LWK WZR FRXUVHV WVLFDO FUHGLW RUDWHV RI RXWVDQGLQJ GHJUHH UHTXLUHP HQWV P D\ RSWW

D 3 DUWFLSDWH LQ WKH0 D\ FRP P HQFHP HQWSURWR KLV KHUDWWVHP HWEU GLSORP DWR EH LVVXHG DWWKUFRP SOHWRQ RI WXGHQW RU

E 3 DUWFLSDWH LQ WKH0 D\ FRP P HQFHP HQWRORZ LQJ KLV KHUDWWVHP HWEU

$ VWXGHQWWP LJKWKDYH JUHDWUWKDQ FUHGLW LWKWZR FRXUVHV LQYROYH FDQLFDO SUDFWFXP RULQWUQVKS WXG\

8QLY HUVLWRI1HZ (QJODQG &DPEULGJH 8QGHUJUDG \$FDGHPLF3RUWIROLR5HXOWVV

/HDUQLQJ\$VVLVWDQW

ILQDQFLDOLGLP D\ EH DGMXVWHG GHSHQGLQJ RQ QXP EHURI FUHGLWKRXUV HQUROOHG

7UDQVIHUVWXGHQWV VKRXOG RQWKHVWHS XVWP HHWDOO8 QLYHUVLWLRI 1HZ (QJODQG UHTXLUHP HQWVWR TXDOI\ IRUDQ DVVRFLDWH EDFKHORU RUP DVWUGHJUHH $GHUHQFH WRWKLV SRDF\ VKRXOG EH GLVFXVVHG IXOO ZLWKIDFXOW DGYLVRUDQG WKH5HJLWUDUEHIRUH UHJLVWUDWLQ FRP SOHWHG

$ SUH P DWLFXODWG WXGHQWZ KR ZLVKHV WR P DNH WKH WUDQVLWRQ WR P DWLFXODWG VWDWV P XWWLVWREDLQ SHUP LVVLRQ IURP WKH DSSURSULDWH7KH WXGHQW FDVLLFDWRQ $ OOFRXUVHV DUH RSHQ WX DOLHG VWXGHQWZ KR KDYH P HWWKH QHFHVVDU SUHUHTXLVLWV

&ODVVLLFDWR Q

6WXGHQWVBYHO RUFODVVLLFDWRQ LV SHUWQHQWR IILQDQFLDOLGHJLEILOLW FODVV \HDU VWXGHQWRJDQ LQRUP DWRQ\ \WWP V DQGRWKHUSRWWHFRQGU UHDWG LQWWXWRQV RUQRP HQFOXUH 7KFKDUWEHRBZ LV LQWQGHG WR FODUL\ VWXGHQWFODVLLFDWRQ

0 LQP XP &UHGLW(DUQHG7RZDUGV 81(' HJUHH

<HDU
) LVW<HDU
6HFRQG <HDU
7KLUG <HDU
) RXUW<HDU
) LW<HDU
%H\RQG%DFFDODXUHDW' HJUHH

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) UHKP DQ
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- XQLRU
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&UHGLW

&ODVV $WWQ GQDFH

$ OOWXGHQW DUH[SHFWHG WR DWWQG DOOFODVVHV IRUZ KLFK \KH\ KDYH UHJLVWHUHG $ WWQGDQFH SROLFLHV UHJDUGLQJ XQ[FXVHG DEVHQFHV DUH HVDEOLVKHG DQG RXQFHG E\ \KH IQGLYGXDOLQWWKFWRUIRUKLV KUFODVVHV ,I D VWXGHQW VDEVHQWWR \KH[DEVHQWWR \KH[KLV KHUZ RUN LV DGYHUVHO DIIHFWHG \KH LQWUXFWRUZ LOOUHSRUWWKH VWXGHQW DEVHQFH WR \KH GHSDUWHQWFKDLUSRJUDP GLUHFWRUZ LWK FRP P HQW RQ \KH VWDWV RI \KH VWXGHQWQ\KH FRXUVH 2 UGLQDUL IRUHDFK FRXUVH DEVHQFHV SHUVHP HVWMUKRXG QRW[FHHG\KH QXP EHUR WP HV \KDWWKH FRXUVH P HHWV Z HHNO

: KHQHYHUD VWXGHQW VSHFLLFDOO UHSRUWHG LQ ZLWQJ E\ DQ LQVWUFWRU\KH GHSDUWHQWFKDLUSRJUDP GLUHFWRUDV EHLQJ H[FHVVLYH DEVHQWURP FODVV \KH LQVWUFWRZLWK\KH DSSURYDOR\KH GHSDUWHQWFKDLUSRJUDP GLUHFWRU P D\ GURS\KH VWXGHQW IURP \KDWFRXUVH ZLWK DQ DSSURSULDWH JUDGH

: KHQD VWXGHQWP LVVHV FODVV IRUDQ\ UHQJLRXV REVHUYDQFHV LWV DQ[FXVHG DEVHQFH 7KH VWXGHQW\KRXOG QRWXIIHUDQ DFDGHP LF SHQDOW EHFDXVH R\KLV DEVHQFH %HRUH\KH DEVHQFH \KH VWXGHQW\ UHVSRQLEOH IRUILQWDQJ FRODERUDWRZ ZLWKDFXOW \R DUDQJHWR REWDLQ DOOLQRP DWRQ FRQWLQGLQJ LQHDFK PLVHG FODVV 7KH VWXGHQWP XWSDQ DWWKH GLVFUHWRQ R\KH IDFXOW P HP EHU WR WXNH DQ PLVHG[DP HLWKHUSURUR RUIRODZ LQ \KH VFKHGXOHG[DP \WP H $ OODVVLJQP HQW P XWEH KDQGHG LQ RQ \WP H

$ WXKEWF &R PS HWLWR QDQ G&ODVV $ WWQGDQFH

: KHQ DQ DWXGHQWP LVVHV FODVV IRUD VFKHGXOHG YDUWLW LQWUFRODJUDW FRP SHWWRQ LWV DQ[FXVHG DEVHQFH 7KH VWXGHQW\DWXGHQWP VKRXOG QRWXIIHUDQ DFDGHP LF SHQDOW EHFDXVH R\KLV DEVHQFH 7KLV SROF\ GRHV QRWDSSO WR VWXGHQW RQ FOQLFDOURWDWQV

: KHQ VXFK DEVHQFHV RFFXU\KH VWXGHQW\DWXGHQWP LV UHVRQVLEOH IRULQWDWQ FRODERUDWRZ ZLWKDFXOW DQG P DNLQJ DUDQJHP HQW VR REWLQ DOOLQRP DWRQ DQG RUWDLQJ FRQWLQGLQJ LQHDFK P LVHG FODVV 7KH DWXGHQWP XWSDQ DNH H[P V VFKHGXOHG IRUD GD\ R DEVHQFH HDLW RUGDW DWWKH LQWUXFWRU SUHPUHQFH $ OODVVLJQP HQW P XWEH KDQGHG LQ RQ WP H

) DFXOW DUH QRWWHTXLUHG WR UHP HGLDW VWXGHQWDWXGHQWV DV D UHVXOW R\KHVH DEVHQFHV

([DP LQ DWR Q V

) LQDO[DP LQDWRQV DUH KHGXOHG DWWKH FORVH R HDFK VHP HVWHU 2 WKHUDVVHVP HQW VXFK DV SDSHUV TXL]] HV WWW DQG SRUWRIRV P D\ EH XVHG GXULQJ WKH FRXUVH DWWKH GLVFUHWRQ R\KH LQWUXFWRU $ QXQ[FXVHG DEVHQFH IRUD VFKHGXOHG H[DP LQDWRQ OHDYHV D VWXGHQW XEMFWWR DIDLOLQJ JUDGH IRUWKDW[DP

* UDG QJ6\ GDEVHQVBHQWP DP DPC GXBGH[DDP WWHWRRPDSUVHDDX/ W SHUDHQHUV

8QLY HUVLWRI1HZ(QJODQG &DPEULGJH 8QGHUJUDG $FDGHPLF3RUWIROLR5HXOWV

$VWXGHQWPD\ ZLVKSURFRVHQWRWKHLQVWKFWRUHQURROLQDFRXUVHIRUQRFUHGLW€

8QLY HUVWR1HZ (QJODQG &DPEULGJH 8QGHUJUDG $FDGHPLF Đ

8QLY HUVLWDWH1HZ(QJODQG &DQFHU 8QGHUJUDG $FDGHPLF3RUWIROLR5HJXODWRQV

,QH[FHSWLRQDOFLUFXPVWDQFHV&RQGXFW6LHQFHV &\6 VWXGHQWP D\ SURSRVHDSHULRQDOP DWUDV DQDOWHUQDWLYH

LGHQWLI\WKH UHFRUGV ZKLFK WKH\ ZLVK WR LQVSHFW7KHRIILFHZLOOQRW WKHVXGHQWWKH UHFRUGV PD\ EHLQVSHFWHG

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8 QLY HUVLWR

8 QLY HV/W

[redacted]

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/HDUQLQJ$VVLVWDQW6HUYLFHV /$6 DXQLZLGH6WXGHQW6XSSRUW6HUYLFHV SURYLGHV DFRP SUHKHQVLYH DUUD\ RI DFDGHPLF VXSSRUWHUYLFHV LQFOXGLQJ SDFHP HQWHUWDLQPHQW FRXUVHV ZRUNVKRSV WXWRULQJ LQGLYLGXDOFRQVXOWDWLRQV DQGGDYLQJ 7KHJRDORI /HDUQLQJ$VVLVWDQW6HUYLFHV LV WR DVVLVWVWXGHQWV LQEHFRP LQJ PRUHLQGHSHQGHQWDQG HIILFLHQWDUHDUQHUV VR WKDWWKH\ DUHEHWWR P HHWWKH8QLYHUVLWV DFDGHP LF VWDQGDUGV DQGVR DWDLQWKHLSRQDOGHXFDWRQDOJRDOV

3URFHP HQW7HWMQJ
' XULQJ 2 UHQWDWRQ DQDHZ XQGHUJUDGXDWHDQGWDQHUVWXGHQWV DUH DVVHVVHGIRUFRP SHWHQFHLQZULWQJ DQGP DWKHP DWF V
3 DFHP HQWFRUHV 6$7 VFRUHV DQGDUHYLHZ RI HDFK LQFRP LQJ VWXGHQWSUHYLRXV FRXUVHZRUN DUH FRQVLGHUHG

7KRVH VWXGHQWZKR GR QRWP HHWWKH8QLYHUVLWV SUHGHWHUP LQHG FULWHULD DUH SDFHGLQWR DQ DSSURSULDWH GHYHORSP HQWDO
P DWKHP DWF V FRXUVH : UWQJ 7XWRULDO&RXUVH /$& RUERWK /$& FRXUVHV DUH VXEMHFWWR WKH DFDGHP LF SROLFLHV DQG
SURFHGXUHV VHWWRUWKE\ &&6 DQG&+3 /$& FRXUVHV KRZHYHU GR QRWDDM\ FRUHFXUULFXOP RUJUDGXDWRQ UHTXLHP HQWV

%DVHGRQSDFHP HQWWWQJ UHVXOWV VWXGHQWZDUHDVVLJHGRQHRI [HHYHU LQ0 DWKHP DWF V

/L W [redacted]

' HQWDO+\JLHQH $VVRFLDWLRQ' HJUHH

' HJUHH $VVRFLDWLRQ6FLHQFHZLWK DPDUULQ' HQWDO+\JLHQH

&RQGXFH +HDOWK3URIHVVLRQV

' HSDUWPHQW' HQWDO+\JLHQH

&RQWDFW%HUQLFH0LOOV 5' + 06 %6 ' LUHFWRU EDPLOOV# XQHHGX

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0DUU3URJUDP ' HVFULSWLRQ

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&XUULFXOXU5HTXLUHPHQWV

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' HSDUWPHQW HEVLWH

0LVVLRQ6WDWHPHQW

7R SURYLGH VWXGHQWV WKH DUWLVWLF DQG LQWXLWLYH ILHOGV RI GHQWDO K\JLHQH VR SURGXFH WKHP KLJKHVWTXDOLW UHJLVWHUHG GHQWDO K\JLHQLVWV

0DUU3URJUDP ' HVFULSWLRQ

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8QLY HUVLWRI 1HZ (QJODQG &DPEULGJH 8QGHUJUDG ' HQWDO\JHQH$V VFRDW0 DWKU

KWWS UHJLVWUDU DPEULGJH XQGHUJUDGP DWKUGK DV S

8Q

81(V QXUVLQJ HGXFDWRQ PRGHOZ DVGHYHORSHG WR DGGUHVV WKH QHHG VRI ERWK WDGLWRQDOOQG QRQ WDGLWRQDOWKGHQW
7KHUHDUHSSRUWXQLWLHVWRHQWHUSURJUDP DWP XOWSOHSLQWGHSHQGLQJ XSRQSURUHGXFDWRQDQGH[SHULHQFH

6WXGHQWVFDQHQWHUWKH SURJUDP LQWKHILUVWHDUQDDQGDUQ DVVRFLDWHGUHH $' 1 DWWKHHQGRI WKHVHFRQG\HDU 7KLV RSWRQLV DYDLODEOHIQ ERWKGD\ DQGHYHQLQJ SURJUDP IRUP DW $IWUSDVLQJ WKHDFHQLQJ H[DP WXGHQWVFDQEHJLQZRUNLQJ DVDUHJLVWHUHG QXUVH 51 DQGDWWKHVDP HWPHFRQWXHWHLHGXFDWRQDVWKH SXUVXHDEDFKHORUV FHQFHLQQXUVLQJ %61 7KLVVWKHGHJUHHSURJUDP GHVFUIEHGEHORZ

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7KH$' 1 SURJUDP XWLOL]HV 3DWFLD%HQQHUV WKHRU@RDHDG\

) RXU\ HDUV RI KLJK VFKRRO(QJOVK

$ P LQLP XP RI \ HDUV RI KLJK VFKRRORUHTXLYDOHQWP DWKLQFOXGLQJ $ OHEUD,

$ P LQLP XP RI \ HDUV RI VFLHQFH LQFOXGLQJ FKHP LVWU DQG ELRORJ\ ZLWK DE

6 $7 VFRUH UHVXOWV

2 YHUDOO KLJK VFKRROGP DWK VFLHQFH* 3$ RI RUEHWWU

6 WDWH FHQVXUH DSSOF DWRQ FRXGEH LQ MRSDUG LI WKH VWXGHQWKDV EHHQ FRQYLFWHG RI DIHORQ\ ) RUP RUH LQRUP DWRQ VHH KWWS ZZZ P DLQH JRY ERDUGRQXVLQJ

$ VWXGHQWDSSOLQJ IRUDGP LVVLRQ WR WKH QXUVLQJ SURJUDP ZKR LV WDQVIHUULQJ IURP DQRWKHUQXUVLQJ RUKHDOWK SURIHVVLRQDOSURJUDP LV UHTXLUHG WR VXEP LWD CHWKUI UHHUHFH IURP DIDFXOV P HP EHUWKFKLQJ GXULQJ WKH WXGHQW P RVWUFHQW FRP SOHWHG VHP HVWU DQGDWWHP HQWURP WKH GLUHFWRUI WKH SURJUDP WKDWKH WXGHQWLV LQJRRG DFDGHP LF WDQGLQJ 7KHVHP DWKUDQY DUH WR EH SURYLGHG LUHFWO WR WKH $GP LVVLRQV 2 IILFH

6 HH DOVR 8 QLYHUVLW 8 QGHUJUDGXDW $GP LVVLRQV

+ HDOK 5 H

8 QLY HV VWR 1 HZ (QJODQG & DQDGD 8 QGHUJUDG $V VFRDW' HJUHH 1 XUVQJ 0 DWU

- &RPPXQLFDWH HIIHFWLYHO ZLWK SDWLHQWV DQG ZLWK RWKHUPHPEHUV RI WKH KHDOWFDUH WHDP
- &RP P XQLFDWH HIIHFWLYHO ZLWK SDWLHQWV DQG ZLWK RWKHUPHPEHUV RI WKH KHDOWFDUH WHDP

2 ODFWRU DELOLW P XVWEH DGHTXDWH WR DVVHVV SDWLHQW DQG VROP SUHP HQWKH QXUVLQJ FDUH SODQ WKDWDUH GHYHORSHG IURP VXFK DVVHVVP HQW ([DP SOHV RI UHOHYDQWDFWLYLWLHV QRQ[FXVLYH

- ' HMFFWRXORGRUV RI ERGLO IXLGV RUVSRLOHG GRRGV
- ' HMFFWP RNH IURP EXUQLQJ P DWULDO
- ' HMFFWKHRQH VRQD FOHQW EUHDK

7DFWLOH DELOLW P XVWEH VXIILFLHQWR DVVHVV SDWLHQW DQG VROP SUHP HQWKH QXUVLQJ FDUH SODQ WKDWDUH GHYHORSHG IURP VXFK DVVHVVP HQW ([DP SOHV RI UHOHYDQWDFWLYLWLHV QRQ[FXVLYH

- ' HMFFWXQVDIH WMP SHUDWXUH GHYHOSV LQ KHDWSURGXFLQJ GHYLFHV XVHG LQ SDWHQWFDUH
- ' HMFFWDQDMP LFDODE QRUP DOLWHV VXFK DV VXEFXWDQHRXV FUHSWXV HGHP D RULQLQDWLQG LQWDYHQRXV IXLG

- 3 HUFRUP WMFKQLTXHV VXFK DV WKH LQVHUWLRQ RI XULQDU FDWKHWHUV

6 WHQJWK DQG P REOLW P XVWEH VXIILFLHQWR SHUFRUP SDWHQWFDUH DFWLYLWLHV DQG HP HUJHQF\ SURFHGXUHV ([DP SOHV RI UHOHYDQW DFWLYLWLHV QRQ[FXVLYH

- 6 DIHO WDQVHUSDWHQW LQ DQG RXWR EHG DQG DVVLVWMHP ZLWK P EXDWRQ XVLQJ DSSURSULDWH DVVLVWLYH GHYLFHV
- 6 DIHO FRQWROWHHDORI D SDWHQWE\ VGRZ O GRZ HULQJ WKH SDWHQW
- 7XUQ DQG SRVLWLRQ SDWHQW DV QHHGHG WR SUHYHQW FRP SODFDWLRQ GXH WR EHG UHVW
- + DQJ LQWDYHQRXV EDJ V DWWKH WDYHQRXV EDHMWDJHQW SDWHQW

&KDOOHQJH([DP IRU/ 31 V
/ LFHQVHG3 UDFWLWLRQHU1 XUVHV / 31 ZKR DUH JUDGXDWHV RI DQ DFFUHGLWHG/ 31 SURJUDP DQG ZKR DUH DQ DFFHSWHG GHSRVLWHG VWXGHQW
LQ WKH QXUVLQJ SURJUDP P D\ FKDOOHQJH 1 6*) XQGDP HQWDOV RI 1 XUVLQJ E\ VXFFHVVIXOO FRP SOHWLQJ WKH IROORZLQJ
FRP SRQHQWV

: ULWWHQ[DP : LWK D VFRUH RI RUKLJKHU

&OLQLFDO LP XODWLRQ LQ QXUVLQJ ODE

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

1 RWH $ WWWWH LV UHTXLUHG

6 HH8 QLYHUVLW8 QGHUJUDGXDW$ GP LVVLRQV

&XUUFXODU5 HTXLUHP HQW

&RXUVHV &UHGLW
) DO<HDU
(1* (QJOLVK &RP SRVLWLRQ
%2 $ QDWP \ DQG 3 K\ VLRORJ\ ,
36< ±,QWURGXFWLRQ WR 3 V\ FKRORJ\
1 6*) XQGDP HQWDOV RI 1 XUVLQJ
7RWDO

6 SULQJ <HDU
36< 6 RFLRF XOWXUDO&RQW[WRI + XP DQ' HY ,
%2 $ QDWP \ DQG 3 K\ VLRORJ\ ,,
1 6* 1 XUVLQJ , 0 HGLFDO6 XUJLFDO1 XUVLQJ
7RWDO

) DO<HDU
36< 6 RFLRF XOWXUDO&RQW[WRI + XP DQ' HY ,,
%2 0 LFURELRORJ\
1 6* 1 XUVLQJ ,, 0 HGLFDO6 XUJLFDO1 XUVLQJ
7RWDO

6 SULQJ <HDU
(OHFWLYHV RQH P XVWEH D KXP DQLWLHV[SORUDWRQ
1 6* ' LP HQVLRQV 3 URIHVVLRQDO1 XUVLQJ
1 6* $ 1 XUVLQJ ,,, 0 DWHUQDO1 QIDQW1 XUVLQJ
1 6* % 1 XUVLQJ ,,, 3 \ FKLDWULF 1 XUVLQJ
1 6* & 1 XUVLQJ ,,, 3 HGLDWULF 1 XUVLQJ
7RWDO

' HYHORSP HQWDO&RXUVHZ RUN
&UHGLWRUGHYHORSP HQWDOFRXUVHZ RUN LQJHQHUDO FRXUVHV QXP EHUHG GHVV WKDQ GHVV WKDQ FUHGLW RUGHUHG IRUGHUHG FRP SOHWRQ

$ FKLHYHP HQW7HVWQJ
$ OOWXGHQW LQ WKH DVVRFLDWHGUHHRSWRQ DUH UHTXLUHG WR SDUWLFLSDWH LQ FRQWQWDKLHYHP HQWWWQJ 7KHVH WWWW EHQFKP DUN
VWXGHQW SURJUHVV ZLWK QDWRQDO QRUP HG GDWD &XUUHQW WKH1 XUVLQJ ' HSDUWP HQWV XWL] LQJ (GXFDWRQDO5 HVRXUFHV ,QF (5,
IRUWWWQJ DQG DVVHVVP HQWWHUYLFHV

&OLQLFDO[SHUHQFH
7KH DVVRFLDWHGUHHRSURJUDP XWL] HV D ZLGH YDULHW RI FOLQLFDO OHDUQLQJ HQYLURQP HQW LQFOXGLQJ DFXWH FDUH KRVSLWDOV KRP H
FDUH DJHQFLHV RXWSDWLHQWWHDWP HQWFHQWHUV ORQJ WHUP FDUH UHKDELOLWDWRQ IDFLOLWLHV DQG SK\VLFLDQ RIILFHV 6WXGHQW DUH
UHVSRQVLEOH IRUWDQ VRUWDWRQ WR DQG IURP FOLQLFDO[SHUHQFHV &OLQLFDO VKLWWFKHGXOHV YDU E\ IDFLOLW DQG UHTXLUH H[LELOLW

3 URJUDP 6WQGDUGV

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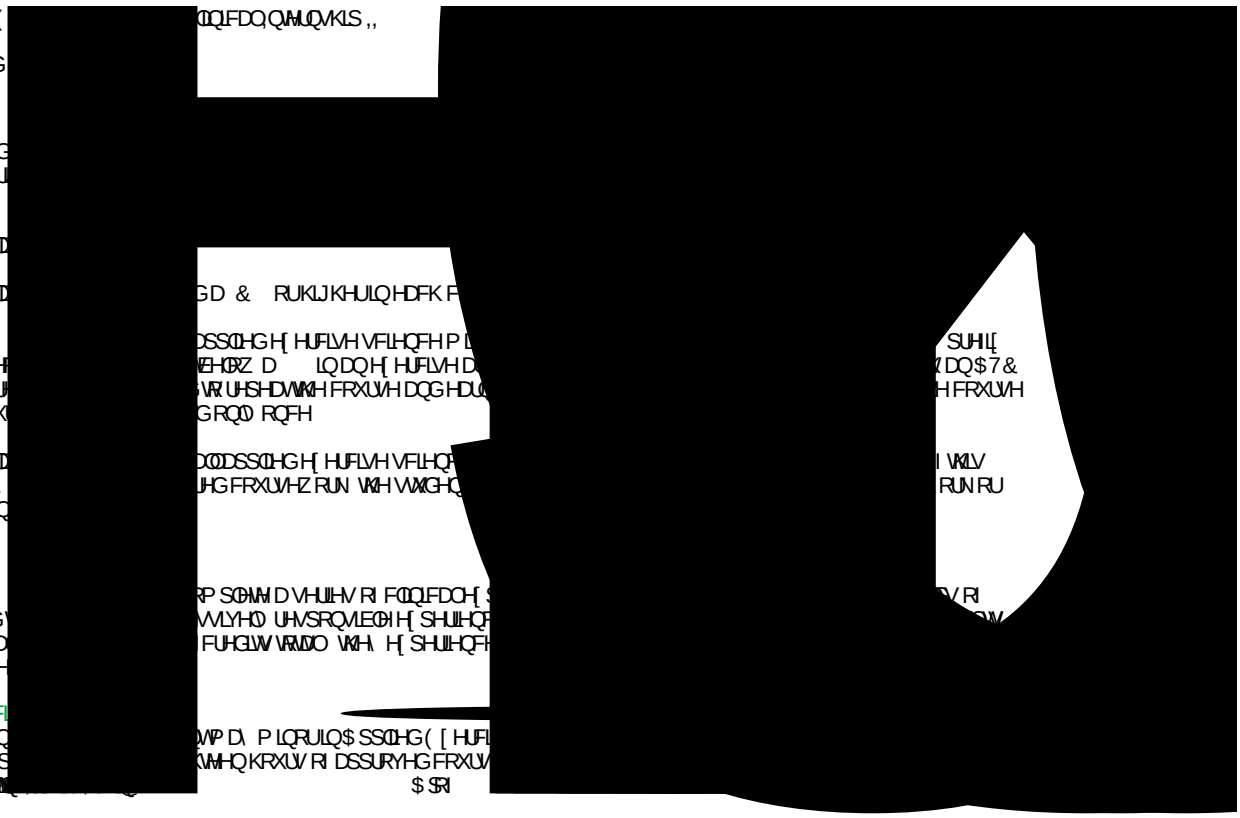
P XWWHP RQWWDW DQ H[DP LQDWRQ DY HUDJ RI LQ HDFK QXUVLQJ FRXUVH IRUSURJUHVVRQ

7KH VWXGHQW P XWWDOVR VDWLVI FWRULO FRP SOHWH WKH FOLQLFDO FRP SRQHQWV RI HDFK FRXUVH



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8QLY HUVLWRI1HZ (QJODQG &DPEULGJH 8QGHUJUDG \$TXDF XOWXUH0 DWUL

KWWS UHJLVWUDU PDLOERJ XQGHUJUDGP DWKUDTV DV S

0 LVVLRQ6 WDWHP HQW

0 DWKU3 UP vp.õ K

&+(* HQHUDO&KHP LVWU ,
3+< * HQHUDO3 K\ VLFV ,
36< ,QWURGXFWRQ VR3 V\ FKRORJ\

$ VKDQJF 7 UDLQLQJ 0 DVRU5 HTXLUHP HQWV

637) RXQGDWRQV RI (63

637 3 HUVRQDO+ HDOWK DQG: HOOHVV
637 5 HVHDUFK 0 HWKRGV
3(&) LUVW$ LG &3 5
(; 6 0 RWRU/ HDUQLQJ DQG3 HUFRUP DQFH
(; 6) XQGDP HQWDO RI 1 XWULWRQ DQG([HUFLVH
(; 6 . LQHVLRORJ\ DQG%LRP HFKDQLFV
(; 6 ([HUFLVH3 K\ VLRORJ\
(; 6 &RQFHSWV RI 6 WHQJWK &RQGLWLRQ
$ 7& ,QWURGXFWRQ V$ VKDQJF 7 UDLQLQJ
$ 7& 3 UHY HQWLRQ DQG &DUH RI $ VKDQJF ,QMXULHV
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$ 7& $ % &DOLFDO([SHUHQFHV DQG
$ 7& $ % &DOLFDO([SHUHQFHV DQG
$ 7& $ VVHVVP HQWV $ VKDQJF DQG2 UWKRSDHGLF ,QMXU ,
$ 7& $ VVHVVP HQWV $ VKDQJF DQG2 UWKRSDHGLF ,QMXU ,,
$ 7& + XP DQ* URVV $ QDWRP \
$ 7& 7 KHUDSHXWF 0 RGDOLWLHV
$ 7& 5 HKDELOLWDWLRQ RI $ VKDQJF DQG2 UWKRSDHGLF ,QMXULHV
$ 7& 0 HGLFDO$ VSHFWV RI 6 SRUW QDQ
$ 7& $ GP LQLVWUDWLRQ RI $ VKDQJF 7 UDLQLQJ 3 URJUDP V
$ 7& 6 HP LQDULQ$ VKDQJF 7 UDLQLQJ

0 LQLP XP 5 HTXLUHG 7 RVDC& UHGLW

3 URJUDP 6 WDQGDUGV DQG 7 HFKQLFDC5 HTXLUHP HQWV
7 KH $ VKDQJF 7 UDLQLQJ (GXFDWRQ 3 URJUDP DVWH 8 QLYHUVLW RI 1 HZ (QJODQG LV D ULJRURXV DQG LQWHQVH SURJUDP VKDVSDFHV
VSHFLLF UHTXLUHP HQWV DQG GHP DQGV RQ VH VWXGHQW HQUROOLQVH SURJUDP $ QREMHFWLYH RI VKLV SURJUDP LV WR SUHSDUH
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DFWLYLW 7 KH WFKQLFDO ADQGDUGV VH WR UHJ E\ VH $ VKDQJF 7 UDLQLQJ (GXFDWRQ 3 URJUDP HVDEOVK VH HVV HQWDOT XDOLWHV
FRQVLGHUHG QHFHVVDU IRUVWXGHQW DGP LWWG WR WKLV SURJUDP WR DFKLHYH WH QQRZ OHGJH VNLOOV DQG FRP SHWHQFLHV RI DQ HQW
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$ VKDQJF 7 UDLQLQJ (GXFDWRQ>&$ $7(@ 7 KH IROOZ LQJ DELOLWHV DQG [SHFWDWRQV P XWWEH P HWE\ DOOVWGHQW DGP LWWG WR WH
$ VKDQJF 7 UDLQLQJ (GXFDWRQ 3 URJUDP

&RP SODQFH Z LWK WH SURJUDP V WFKQLFDOVDQGDUGV GRHV QRW XDUDQWHH D VWXGHQW HQJLELOLW IRUWH %RDUG RI &HUWLFDWQ %2 &
HQW OHYHOFHLWLFDWQH[DP LQDWQ

&DQGLGDWV IRUVHOFWQ WR WH $ VKDQJF 7 UDLQLQJ (GXFDWQ 3 URJUDP P XWWGHP RQVWDW

7 KH P HQWDCFDSDFLW WR DVVLP LODW HQDO DQD\ H \ QWH HLQWJUDW FRQFHSW DQG SUREOP VROYH WR IRUP XDW
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7 KH DELOW WR FRP P XQLFDW HIIHFWLY HO DQG VHQVLWY HO Z LWK SDWHQW DQG FRGHDJXHV LQFXCLQJ LQGLYLGXDY IURP
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Select a minimum of three courses below for a total of 9 credits, no more than 6 credits of which may be CHE 410 and/or 411. Consult with your academic advisor for approval of advanced CHE courses not listed below.

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0LQLP XP 3URJUDP &UHGLWV

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This Catalog documents the academic programs, policies, and activ]Mes coursesco2η

Pre-Pharmacy

Program: Undergraduate course of study providing preparation for application

Mission Statement

Major Program Description

Admission Requirements

Transfer Credit and Advanced Standing

Curricular Requirements

Department Website

Curricular Requirements

Pre-Pharmacy Track Required Courses	
ENG 110 - English Composition	4
MAT 150 - Statistics for Life Sciences	3
MAT 190 - Calculus I (prereq: MAT 180 or test placement)	4
(Explorations) Humanities Course Prefix must be ENG, FRE, HIS, LIT, PHI, SPA, or WST	3
PSY 105 - Intro to Psychology	3
(SGA) Social/Global Awareness Course with a SOC prefix	3
SPC 100 - Effective Public Speaking	3
Core/Liberal Arts Electives (two courses) (ADV) Advanced Humanities or (ART) Creative Arts or (LIL) Human Traditions - Only one course from each category can be selected	6
BIO 100 or 105 - Biology I	4
BIO 101 or 106- Biology II	4
BIO 208 - Intro Anatomy & Physiology I	4
BIO 209 - Intro Anatomy & Physiology II	4
CHE 110 - General Chemistry I	4
CHE 111 - General Chemistry II	4
CHE 210 - Organic Chemistry I	5
CHE 211 - Organic Chemistry II	5
PHY 110 - Physics I*	4
PHY 111 - Physics II**	4
* PHY 210 may be substituted for PHY 110	
** PHY 211 may be substituted for PHY 111	
Minimum Required Credits	71

Note: Some of the courses listed above may be waived with prior credit that meets UNE approved criteria as outlined in the academic catalog (i.e. AP examination scores or transfer credits from regionally accredited institutions of higher education). Please also note that the pre-pharmacy course sequence is different from the traditional biochemistry undergraduate major course sequence. Students seeking to complete the bachelor of science degree in biochemistry should review the Biochemistry Program information located in the academic catalog at the time of admission.

*Addendum: This information was updated February, 2009.

Notice and Responsibilities Regarding this Catalog

This Catalog documents the academic programs, policies, and activities of the University of New England for the 2008-2009 academic year. The information contained herein is accurate as of date of publication August 1, 2008.

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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W

Business Administration

Degree: Bachelor of Science with a major in Business Administration

College: College of Arts and Sciences

Department: Business & Communications

Contact: Dr. James Breyley (Chair) jbreyley@une.edu

Mission Statement

Major Program Description

Curricular Requirements

Program Standards

Minor in Business Administration

Department Website

Mission Statement

The mission of the Department of Business and Communications is to provide competent, supportive faculty and to offer relevant curricula that will help prepare students to cope with and thrive in an ever-changing world. More specifically, the department strives:

- to prepare students for ethically and socially responsible roles in business, the communications professions and society;
- to develop in students the ability to recognize, analyze, and solve problems;
- to help students achieve their personal and career goals; and
- to prepare students for entry-level positions in either the private or public sector and/or to prepare students for coursework at the graduate level.

Major Program Description

The bachelor of science degree in business administration is designed to supplement the University's liberal arts core curriculum. In particular, its goals are:

- to facilitate students' acquisition of a basic business knowledge base in the functional areas of business including, but not limited to, accounting, business law, economics, finance, management, and marketing;
- to facilitate students' acquisition of technical skills and competencies in computer information systems and quantitative techniques;
- to provide professional job search and experience;
- to facilitate students' ability to integrate their knowledge of the functional areas of business with their technical skills and competencies and their professional experiences and to apply that knowledge and those skills.

Curricular Requirements

	Credits
University Core Requirements (includes MAT 120)	42-43
Program Required Courses	45
BUAC 201 - Financial Accounting	3
BUAC 203 - Managerial Accounting	3
BUEC 203 - Macroeconomics	3
BUEC 204 - Microeconomics	3
BUFI 302 - Personal Finance	3
BUFI 315 - Financial Management	3
BUMG 200 - Management	3
BUMG 311 - Business and Society Relations	3
BUMG 325 - Legal Environment of Business	3
BUMG 335 - International Business	3
BUMG 495A - Internship	3
BUMG 498 - Administrative Policy and Strategy	3
BUMK 200 - Marketing	3
CITM 100 - Introduction to Microcomputer Software	3
MAT 110 - Quantitative Reasoning	3
Business Elective Required Courses	15
Choose FIVE of the following courses*	
BUEC 380 - Economic Development of the United States	
BUEC 385 - Health Economics	
BUEC 390 - Environmental Economics	
BUEC 395 - Ecological Economics	
BUMG 301 - Organizational Behavior	
BUMG 302 - Human Resource Management	
BUMG 312 - Entrepreneurship/Small Business Management	
BUMG 328 - Employment Law	
BUMG 360 - Leadership	
BUMG 400 - Management Seminar	

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0 LQLP XP 5HTXLUHG 7RWDO&UHGLW

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7KH 8 QLYHUVLW\ RI 1 HZ (QJODQG UHVHUYHV WKH ULJKW TO WLW VROH MXGJP HQW RP DNH FKDQJHV RI DQ QDWXUH LQ LW SURJUDP V FDOHQGU RUDFDGHP LF VFKHGXOHV ZKHQ HYHU LW GHHPV DU RUGHUL DEOH LQFXGLQJ FKDQJHV LQ FRXUVH FRQWHQW WKH UHVFKHGXOLQJ RI FODVVHV ZLWKRUW LWKRXW[WHQGLQJ WKH DFDGHP LF WUP FDCFHOODWLRQ RI VFKHGXOHG FODVVHV RUROWHUDFHP LF DFWLYLWLHV LQ DQ VXFK FDVH JLYLQJ VXFK QRWLFH WKHUHRI DV LV UHDVRQDEO\ SUDFWLFDEOH XQGHUWKH FLUFXP VWDQFHV

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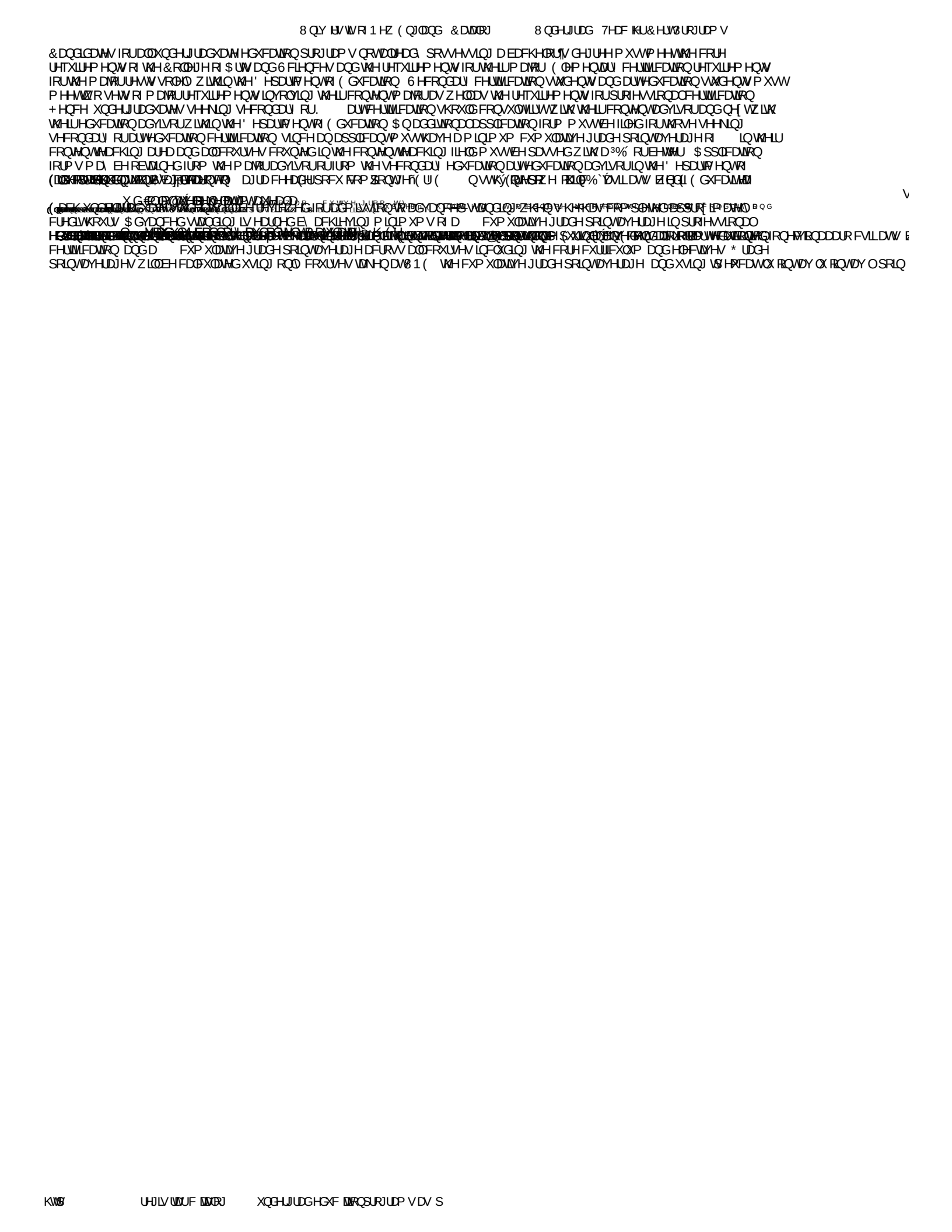

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(1* ,QWURGXFWRQ WR / LWHUDU 7KHRU DQG &UHDFLP
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7KH GHSDUWP HQWRII HUV (QJODVK P DWKU/ WKH RSSRUWXQLW WR VHOHFWWDCORI WKH(' 8 VHFRQGDU HGXFDWRQ FHUWLFDWRQ FRXUVH OVWXG EHORZ DV WKH LUHOHFWLYH LQ RUGHUWR EHFRP H P LGGOH VFKRROHQJ K VFKRROHQJ ODVFKUV J UDGHV : KLOH SURYLGLQJ D VRQG IRXQGDWRQ LQ HQJODVK WKLV SURJUDP LQFOXGHV H[WHQVLYH FRXUVHZ RUN LQ HGXFDWRQ Z KLFK Z KHQ FRP ELQHG Z LWK WKH VHFRQGDU VWXGHQWV LQWHUHVWLQ 6 WDWH RI 0 DLQH WDCHUHWLFDWRQ XSRQ FRP SOHWRQ RI WKH GHJUHH SURJUDP 7KLV SURJUDP LV DSSURYHG E\ WKH 6 WDWH RI 0 DLQH %RDUG RI (GXFDWRQ

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$ VWXGHQWZ LWK D P DWRULQ DQRWKHUGHSDUWP HQWP D\ P LQRULQ(QJODVK Z LWK WKH SHUP LVVLRQ RI WKH(QJODVK ' HSDUWP HQW &KDLU (LJKWHHQ KRXU/ RI DSSURYHG FRXUVH Z RUN LV UHTXLUHG IRUWKH 0 LQRULQ(QJODVK

1 RWH DQG 5 HVSRQVLELOLWHV 5 HJDUGLQJ WKLV &DPERJ

7KLV &DPERJ GRFXP HQW WKH DFDGHP LF SURJUDP V SROLFLHV DQG DFWLYLWHV RI WKH 8 QLYHUVLWV RI 1 HZ (QJODQG IRUWKH DFDGHP LF \ HDU 7KH INIRUP DWRQ FRQWDLQHG KHUHLQ LV DFFXUDWH DV RI GDWH RI SXEOLFDWRQ $ XJ XVW

7KH 8 QLYHUVLWV RI 1 HZ (QJODQG UHVHUYHV WKH ULJKWQ LWV VROHOXGJP HQWWR P DNH FKDQJHV RI DQ\ QDWXUH LQ LWV SURJUDP V FDWHQGDU RUDFDGHP LF VFKHGXOHV Z KHQHYHUWLWV GHHP HG QHFHVVDU RUGHVLUDEOH LQFXGLQJ FKDQJHV LQ FRXUVH FRQWHQWWKH

UHVFKHGXOLQJ RI FODVVHV Z LWK RUZ LWKRXW[WMQGLQJ WKH DFDGHP LF WMUP FDQFHOQLQJ RI VFKHGXOHG FODVVHV RURWKHU DFDGHP LF DFWLYLWLHV LQ DQ\ VXFK FDVH J LYLQJ VXFK QRWLFH WKHUHRI DV LV UHDVRQDEO\ SUDFWLFDEOH XQGHUWKH FLUFXP VWDQFHV

:WXP

(QYLURQPHQWDO6FLHQFH

' HJUHH|

&RQWDFW $UWDQG6FLHQFHV

&RQWDFW' U2ZHQ* UKPEQJ &KDLU RJUKPEQJ# XQHGX

%L2 0DUN%LRORJ\
%L2 3DQVRI1HZ (QJODQG
%L2 1DWXUDO

(19 (QYLURQPHQWDO5DFLVP DQGWKH(QYLURQPHQWDO-XVWLFH0RYHPHQW
(19 (QYLURQPHQWDO(WKLFV
(19 $GYDQFHG7RSLFVLQ(QYLURQPHQWDO6WXGLHV FUHGLW
(19 $GYDQFHG7RSLFVLQ(QYLURQPHQWDO6WXGLHV FUHGLW

)LHOG6WXGLHV&RXUVHV
(19 /'HVLJQZLWK1DWXUH6LWH3ODQQLQJ
(19 /:HWODQG&RQVHUYDWLRQDQG(FRORJ\

(19 /:HWODQG5HVWRUDWLRQ6FLHQFHDQG3ROF\
(19 /5HVRUWQJ&RDVWDO+DELWDWLQWH* XOI0DLQH
(19 //DQG&RQVHUYDWLRQ3UDFWLFXP ZLWK)LHOG/DE
(19 /7KH1DWXUH:ULWHUV

(19 /&RQWHPSRUDU\1DWXUH:ULWQJ/DE

(19 (QYLURQPHQWDO+LVWRU\ R1HZ(QJODQG
(19 2XWGRRU(QYLURQPHQWDO(GXFDWRQ

6HFRQGDU\(GXFDWRQ&HUWLFDWRQ
7KHGHSDUWPHQWHQYRIHUV HQYLURQPHQWDOVFLHQFHPDUVWKHSSRUWQLWVWRVHOHFWWKH('8VHFRQGDU\HGXFDWRQFHUWLFDWRQ
FRXUVHV OLVWHGEHORZ DVWKHLUHOHFWLYHVLQRUGHUWRHHFRPHPLGGOHVFKRROWHDFKHUHRU 6WXGQG G G G V

8QLY HUVLWLWR1HZ (QJODQG &DQFHU 8QGHUJUDG (QUROPHQW6WXGLHV0DUN

KWWS UHJLVWUDU DWULF DQFHU XQGHUJUDGP DUNHWV WX S UDG D

0LQRULQ(QYLURQPHQWDO6WXGLHV

$ VWXGHQWZLWKDPDVWHU¶VGHJUHHIURPWKHUHSDUWPHQWPD\PLQRULQ(QYLURQPHQWDO6WXGLHVZLWKWKHDSSURYDORIWKH(QYLURQPHQWDO 6WXGLHV' HSDUWPHQW&KDLU $ PLQLPXP RI HLJKWHQKRXUV RI DSSURYHG FRXUVHFUHGLWQWKHIROORZLQJ FRXUVHV LV UHTXLUHG

(19 RU(19 ,QWRGXFWLRQ WR(QYLURQPHQWDO6WXGLHV
(19 3RSXODWLRQDQG&RPH(QYLURQPHQW
(19 (QYLURQPHQWDO8RF\ LQ&RP SDUDWLYH3HUVSHFWLYH HLWKQDE0 @ZD`XOR +HDVBEHÀ +HDVBHÀSUQHYF VWXDFGHP LFGR +HBHOBHV
(19 &RQVHUYDWLRQ3UHVHUYDWLRQ
$QGWZR FRXUVHV FKRVHQ IURP WKH OLWWR (QYLURQPHQWDO6WXGLHV' LVWULEXWLRQ5HTXLUHPHQW

1RWHDQG5HVSRQVLELOLWLHV5HJDUGLQJ WKLV &DWDORJ

7KLV &DWDORJ GRFXPHQW WKH DFDGHPLF SURJUDPV SRDFLHV DQGDFWLYLWLHV RI WKH8QLYHUVLWLRI1HZ (QJODQG IRUWKH DFDGHPLF\HDU 7KHIQRUP DWRQ FRQWLQHG KHUHQ IV DFFXUDWH DV RI GDWH RI SXEOLFDWLRQ$XJXVW

7KH8QLYHUVLWLRI1HZ (QJODQG UHVHUYHV WKHULJKWQLWV VROHMXGJP HQWRP DNHFKDQJHV RI DQ QDWXUHQIIV SURJUDPV FDOHQGDU RUDFDGHPLF VWDQGDUGV RU UHTXLUHPHQWV DQG WR PDNH RWKHU FKDQJHV LQ FRXUVHFRQWHQWRU UHTXLUHPHQWV DV WKH8QLYHUVLWLRI1HZ (QJODQG GHWHUPLQHV QHFHVVDU RUGHVLUDEOH LQ LWV VROH GLVFUHWLRQ

: KLOHHDFK VWXGHQWP D\ ZRUN FORVHO ZLWK DQ DFDGHP LF DGYLVRU KHRVKHP XVW À

[illegible]

+ HDOWK 6 HUYLFHV 0 DQDJHP HQW %DFKHORU' HJUHH & RP SOHWLRQ 3 URJUDP

' HJUHH %DFKHORU6 FLHQFH ZLWK D P DMRULQ + HDOWK6 HUYLFHV 0 DQDJHP HQW

&RQFHQWUDWLRQV

' HSDUWP HQW1 XUVLQJ DQG + HDOWK6 HUYLFHV 0 DQDJHP HQW

&RQWDFW' LQD0 &URZHOO3 K' 51 &1$$ %& ,QMHUP ' LUHFWRU
GFURZHOO# XQHGX

0 LVVLRQ6 WDWP HQW

0 DMRU3 URJUDP ' HVFULSWLRQ

$ GP LVVLRQ5 HTXLUHP HQWV

7UDQVI HU&UHGLWDQG $GYDQFHG6 WDQGLQJ

&XUUFXODU5 HTXLUHP HQWV

3 URJUDP 6 WDQGDUGV

* UDGXDWLRQ5 HTXLUHP HQWV

+60 0 LQRU

' HSDUWP HQWV HEVLWH

0 LVVLRQ6 WDWP HQW

7KH KHDOWK VHUYLFHP DQDJHP HQWDFXOW EHOHYHV WKDWWKH DYDLODELOLW RI P XOWLGLVFLSOLQDU DQG H[SHULQWV LQ SURHVVLRQDOHGXFDWLRQ LV FUXFLDO WR WKH HP HUJHQFH RI QHZ DUHDV RI KHDOWK SURJUDP V RI WKH 8 QLYHUVLW RI 1 HZ (QJODQG SURYLGH WKH IRXQGDWLRQ IRU WKH HQW WR P RYH IURP QRYLFH WR DG H[SHUWSUDFWF ZLWLQ WKH SURHVVLRQDQG DGDZ V WKH HQW WR H[SDQGH SURHVVLRQDOURO HSSRUWQLWHV

0 DMRU3 URJUDP ' HVFULSWLRQ

7KLV SURJUDP LV DVWR \ HDUIXUVHP HVWU%DFKHORU6 FLHQFH GHJUHH FRS OHWLRQ SURJUDP ZKLFK LV RIIHUHG RQ WKH: HVWEURRN &RQHJH & DP SXV 7KH SURJUDP IRFXVHV RQ SUHSDULQJ WKH HQW IRULQFUHDVLQJ0 UHVSRQVLEOH HDGHUVKLS SRVLWRQV LQ D YDULHW RI KHDOWK GHOLYHU\ V\VWHPV DFURVV WKH QDWLRQ IRFXVHG DUHDV RI SUDFWLFH LQFOXGH KHDOWK VHUYLFH P DQDJHP HQW

$ WRWDO RI FUHGLW DUH UHTXLUHG IRUWKLV GHJUHH FRP SOHWLRQ SURJUDP DQG D WKHVLV\ WR WDQVHUXS WR FUHGLW RI SURJUDFDGHP LF DQG SURHVVLRQDOZ RUN FRP SOHWLWG WKURXJK DQ DFFUHGLWHG ,QVWLWXWLRQ\ HDUFRDUHHUWKURXJK D VSHFLDOL HG GRXEOHURRWWKRXJK SURJUDP HJ UHJLVWHUHG QXUVH UDGLRJ\ WHFKQLFLDQ ELRWHFKQRJLVWV WKH DSSOLFDWLRQ RI P DQDJHP HQWWNLOOV WR WKH
GHOLYHU\ EHRIWKRXJWWRXJWKHRRUWKWWX

8QLYHUVLWRI1HZ(QJODQG &DQWHUEXU 8QGHUJUDG +HDOWK6HUYLFH0DQDJHPHQW

VSHFLDOLVHGGHJUHHFRPELQJSURJUDP HJ UHJLVWHUHGQXUVH UDGLRJUDSKHU EHURWHKQRORJLVWGHQWDO
K\JLHQLVWHWF RUWKRSWLVW RFFXSDWLRQDO WKHUDSLVW SK\VLRWKHUDSLVW SRGLDWULVW HQWHURORJLVW

DOLQLPXP RYHUDOO 3$ RI LQSHYLRXVFRQGXFWRUVV

6HEUHQLHQWWQQEPQGHUJUDGXDWH$GPLVVLRQVDOYR

7UDQVIHU&UHGLWDQG$GYDQFHG6WDQGLQJ

$PDLPXP RI FUHGLWV PD\ EH DFFHSWHG DV WUDQVIHUUHG IURP DQ DFFUHGLWHG FROOHJH ZKHUH DQ DVVRFLDWH
HTXLYDOHQWZDVHDUQHG 3UHUDFDGHPLF FUHGLWDQG SURIHVVLRQDOZRUN FRPSOHWHG ZLWKRXWDQ DVVRFLDWH
ZLOOEHDZDUGHGRQDFRXUVHE\ FRXUVHEDVLVDQG WDQVIHUDEOHWRDOLDJUDGHRI³&´ RUEHWWHUZDVHDUQHG 2WKHUSROLFLQ DQG
UHVWULFWLRQV DSSO 6HH8QLYHUVLW8QGHUJUDGXDWH$GPLVVLRQV DOYR

&XUULFXODU5HTXLUHPHQW

1HZ(QJODQGVWXGHQW 7KHVHWKHP HVUHQRFHWKH8QLYHUVLWVFRUHYDOXHV RIGLVFRYHU FUHDWLYLW SUREOHP VROYLQJ GHFLVLRQ
PDNLQJDQGFULWLFDONLQLQJ 7KHFRPSHWHQFLHV DUH DFFRPSOVKHGWKURXJK DVHULHV RI GHUDQLQJ H[SHULHQFHV WKDWRUP D
DWWHQGDQFHSROLF\ DQG VWXGHQW UHVSRQVLELOLWLHV

6WXGHQWVLQWKH%DFFDODXUHDW' HJUHH&RPSOHWRQ3URJUDP SDUWLFLSDWLQJ DILOLDWHG[SHULHQFHGXDWLQJ WKLUGSDUW HQWHUSULVDOVHTWKHQWZDV HQWURKEQDX

KWWS UHJLVWUDUF DQWRJ XQGHJUDGKV P DV S

O

/ DERUDWRU 6FLHQFH

' HJUHH %DFKHORU RI 6FLHQFH ZLWK D P DWRULQ/ DERUDWRU 6FLHQFH

&RQGXFW $ UW DQG 6FLHQFHV

' HSDUWP HQW &KHP LVWU DQG 3K\ VLFV

&RQWDFW' U/ DUU & 7KRP SVRQ ,QVWUP &KDLU / 7KRP SVRQ # XQH HGX

0 LVVLRQ 6WDWP HQW

0 DWRU3 URJUDP ' HVFULSWRQ

7UDQVHU&UHGLWDQG $GYDQFHG 6WDQGLQJ

&XUUFXODU5 HTXLUHP HQWV

3 URJUDP 6WDQGDUGV

' HSDUWP HQW HEVLWH

0 LVVLRQ 6WDWP HQW

&KHP LVWU DQG SK\ VLFV DUH IXQGP HQWDOVFLHQFHV WKDWRXFK HYHU DVSHFWR RXUDYHV DQG WKH ZRUOG DURXQG XV &KHP LVWU LV WKH VWXG RI P DWWU LWV FKHP LFDODQG SK\ VLFDOSURSHUWHV WKH FKHP LFDODQG SK\ VLFDOFKDQJHV LVXQGHUJRHV DQG WKH HQHUJ\ FKDQJHV WKDWDFFRP SDQ\ WKRVH SURFHVVHV &KHP LVWU RWQ LV UHHUHG WR DV WKH FHQWDOVFLHQFH LWUHVWXSRQ WKH IRXQGDWRQ RI P DWKP DWFV DQG SK\ VLFV DQG LQWUQ LV WKH HVVHQWDOEDVLV IRUWKH GHYDWRQ RI DOPRGP HQWDO VFLHQFHV VXFK DV ELRORJ\ DQG P HGLFLQH &KHP LVWU LV ODUJHO DQ[SHULP HQWDOVFLHQFH DQG KDV SSODFDWRQV LQ VXFK GLYHUVH DUHDV R UHVHDUFK DV WKH GHYHORSP HQWR QHZ GUXJV WKH VHDUFK IRUVROWRQV WR SUREOP V RI HQYLURQP HQWDOSROWRQ DQG WKH GHUYDWRQ RI DOWHUQDWLYH HQHUJ\ VRXUFHV 0 XFK FXWQJ HGJH UHVHDUFK LQ ELRORJ\ DQG P HGLFLQH LV EHLQJ FDUULHG RXWDWKH GHYHORP HQWDOSROWRQ DQG WKH VWXG RI FKHP LVWU LV EDVHG

3 K\ VLFV WR LV WKH VWXG RI P DWWUDQG HQHUJ\ YLHZ HG IURP D GLIIHUHQWSHUVSHFWLYH 7RXQGHUVWDQG DYLQJ V\ VWP V DQG WKH XQLY HUVH ZKLFK ZH OYH UHTXLUHV DQ XQGHUVWDQGLQJ RI WKH FKHP LFDODQG SK\ VLFDOSULQFLSOHV WKDWRSHUDWH ZLWKLQ WKHP

,Q DGGLWRQ WR RIIHULQJ P DWKU LQFKHP LVWU FKHP LVWU VHFRQGU HGXFDWRQ ELRFKHP LVWU DQG DERUDWRU VFLHQFH DQG D P LQRULQ FKHP LVWU WKH GHSDUWP HQWOOY D VLJQLILFDQWRQHIRUWXGH QW LQ RWHUSURJUDP V WKURXJK LWV LQWRGXFWRU\ FRXUVHV LQ FKHP LVWU DQG 7KH GHSDUWP HQWDOYR DCP LQVWUV WKH SUH SKDUP DF\ SURJUDP %HFDXVH RI WKH IXQGP HQWDOCOURQV RI FKHP LVWU DQG SK\ VLFV LQ WKH ELRJLFDO HQYLURQP HQWO DQG KHDOWK VFLHQFHV WXGHQWV LQ WKH HQHUJ\ SURFHVVHV DQG FRP P XQLFDWRQ VNLOOV WXHHVHG LQ WKH IRXQGDWRQ IRUDDWU FRXUVHV ZKLFK IRUP WKH IRXQGDWRQ IRUDDWU FRXUVHV LQ WKH WXGHQW P DWWU

0 DWRU3 URJUDP ' HVFULSWRQ

7KH DERUDWRU VFLHQFH / 6 P DWRULV GHVLJQHG WR SUHSDUH JUDGXDWH VWXGHQWV RI P RGHUQ DERUDWRU VHWWQJV UDQJQJ IURP ELRMFKQRORJ\ DEV WR TXDOW\ FRQWROODEV WR DFDGHP LF P HGLFDO RULQGXVWULDO DERUDWRU\ 7KH SURJUDP LQFOXGHV D EURDG VSHFWWK RI DERUDWRU FRXUVHV LQ FKHP LVWU ELRFKHP LVWU DQG ELRJ\ VR WKDWWKH JUDGXDWH ZLOKDYH DV FRP SUHKHQVLYH UHSHUWRLH RI DE VNLOOV DV SRVVLEOH : LWK FDUHXOHDFWRQ RI HDFWLYH / 6 JUGXDWH ZLVKLQ WR EHFRP H HGLFDOMFKQRORJ\ ZLOOEH ZHOSUHSDUHG IRUDFFHSWQFH LQWR DFFUHGLWG KRVSLWDOLQWLQJV SURJUDP V LQ HGLFDOMFKQRORJ\ 5HFHQW6 JUGXDWH KDYH EHHQ VXFFHVVIXOLQ SXUVXLQJ FDUHHUV LQ LQGXVWU DQG SRVWEDFFDXUHDWH JUDGXDWH VWXGLHV

7UDQVHU&UHGLWDQG $GYDQFHG 6WDQGLQJ

6HH 8QGHUJUDGXDWH $GP LVVLRQV

&XUUFXODU5 HTXLUHP HQWV

&UHGLW

8 QLYHUVLW &RUH 5 HTXLUHP HQWV CH ,

3 URJUDP 5 HTXLUHG &RXUVHV

%2 RU %LRORJ\ , DQG ,, FULQFXGHG LQ FRUH UHTXLUHP HQWV

%2 * HQHUDFV

%2 UUDEHP*LFHUHELRORJ\KHP FRXVFL+ CDE/HRHDEP HQHSUDG

%2 ,P P XQROJ\

%2 &HODQG 0 RDFXODU%LRORJ\

,RUH UHSW

&+(* HQHUDO&KHP LVWU ,,

5 HFRP P HQGHG (OHFWLYH &RXUVHV

%2 &RP SDUDWLYH 9HUWHEUDWH \ LL %2 QRVWHOHFWLG
0 \$7 6WDWLVWLFV IRU/LIH 6FLHQFHV
0 \$7 &DOFXOXV ,,
2 SHQ(OHFWLYH &UHGLW DV QHHGHG WR UHDFK FUHGLW YDULDEOH
0 LQLP XP 5HTXLUHG 7RWDO &UHGLW @Ð `

3 URJUDP 6WUXFWXUH
\$ P LQLP XP JUDGH RI & P XVW EH DFKLHYHG LQ DOO UHTXLUHG VFLHQFH DQG P DWH P DWLFV FRXUVHV XVHG WR GHWHUPLQH GUDGXDWLRQ LQ OLEHUDO DUW VFLHQFH DQG D FXP XODWLYH JUDGH SRLQW DYHUDJH RI & RU EHWWHU LV D UHTXLUHP HQWRUJUDGXDWLRQ

1 RWHV DQG 5HVSRQVLELOLWLHV 5 HJ DUGLQJ V@ÐLW

/ LEHUDO6WXGLHV

' HJUHH %DFKHORURI \$UWV ZLWK D P DMRULQ/ LEHUDO6WXGLHV

&RQFHQWUDWLRQV

' HSDUWPHQW,QWURGXFWLRQDU\6WXGLHV

&RQWDFW' U/LQGED6DUURUHQG &KDLU GYDUURUHQG# XQHHGX

0 LVVLRQ6WDWHP HQW

0 DMRU3URJUDP ' HVFULSWLRQ

7UDQVHU&UHGLWDQG\$GYDQFHG6WDQGLQJ

&XUULFXODU5HTXLUHP HQWV

' HSDUWHQW HEVLWH

0 LVVLRQ6WDWHP HQW

7KH DEHUDOVWXGLHV P DMRUFKDOOHQJHV VWXGHQWV WR XQGHUVWDQG DQGHYDOXDWH DQGLGHDV DV WKH\ DUH H[SUHVVHG LQ WKH YDURXV KXP DQLWLHV GLVFLSOLQHV ,QGGLWLRQ WKHP DMRULQVWUV VWXGHQWV WR P DNHFRQQHFWLRQV DFURVV DFDGHP LF GLVFLSOLQHV KLVWRULFDOSHUGV DQG GLYHUVHFXOWXUHV 2 XUDFXOW EHOLHYH WKDWWKH DELOLW WR P DNH WKHVH FRQQHFWLRQV LV WKH P DUN RI DWUO HGXFDWHG SHUVRQ

0 DMRU3URJUDP ' HVFULSWLRQ

/ LEHUDO6WXGLHV LV D P XOWLFLSOLQDU P DMRULQ WKH KXP DQLWLHV KLVWRU LQFOXGLQJ KLVWRU RI DW KLVWRU RI P XVF SKLORVRSK\

0DWKHPDWLFV

' HJUHH %DFKHORURI 6FLHQFH ZLWK D PDWKHPDWLFV 0DWKHPDWLFV

&RQWHQW $UWV DQG 6FLHQFHV

' HSDUWPHQW %LRORJLFDO 6FLHQFHV

&RQWDFW U6HSKDQ=HHP DQ ,QVWUXP &KDLU VJHHP DQ# XQHGX

0LVVLRQ 6WDWHPHQW

0DWU3URJUDP ' HVFULSWLRQ

7UDQVIHU&UHGLW$GYDQFHG 6WDQGLQJ

&XUULFXODU5HTXLUHPHQWV

0LQRULQ0DWKHPDWLFV

* HQHUDO QRUP DWRQ IRU %LRORJLFDO 6FLHQFHV' HSDUWPHQW0DWUV

' HSDUWPHQW HEVLWH

0LVVLRQ 6WDWHPHQW

%LRORJ\ LV DQH[SORUDWRQ RI WKH OLYLQJ ZRUOG WKDWXQGHUVFRUHV DQG H[SODLQV WKH XQLW DQG GLYHUVLW RI OLH %XWWV DSYR D WKO KXP DQHQGHDYRULQ WKDWWDIIHFW XV DOO %HFDXVH ZH OYH DWWKLV WP HLQKXP DQKLWRU ± DWKH EHJLQQLQJ RI ZKDWP DQ\ EHOLYH WR EH D ELRORJLFDOJH VWXGHQWP XWEH DEOH WR DSSO ELRORJLFDOFRQFHSW WR WKH ZLGH UDQ\ RI SUREOP V DQG FKRLFHV WKH LQHYLWDE\ IDFH

0DWKU3URJUDP ' HVFULSWLRQ

7KH P DULQH ELRORJ\ P DWU LV GHVLJHG WR SURYLGH VWXGHQW ZLWK D VROG FRXQGDWRQ XSRQ ZKLFK WR EXLGG WKHLUP DULQH VSHFLDOW FRXUVH 6LQFH WKH 8QLYHUVLW VLWXDWHG RQ WKH $WODQWF FRDVW DWWDWKP RXWH ELRORJ\ P DULQH HVWDUL DQGIUHVK ZDWHU ELRORJ\ WKURXJK FRXUVH DQGLQGHSHQGHQW UHVHDUFK SURMHFWV 7KH SURJUDP LVIOH[LEOH LQ WKDWWWXGHQW ZLWK D VWURQJ FRQFHQWUDWLRQ LQ ELRORJ\ RU PDWKHPDWLFV FDQ FXVWRPL]H WKHLU FXUULFXOXP WR PHHW WKHLU LQGLYLGXDO LQWHUHVWV DQG FDUHHU JRDOV

7UDQVIHU&UHGLW$GYDQFHG 6WDQGLQJ

&RXUVHV SUHYLRXVO FRP SOHWHG DWDQRWKHUFFUHGLWHG FROOHJH FDQ EH WUDQVIHUUHG WR WKLV GHJUHH SURJUDP 7UDQVIHUUHG ELRORJ\ FRXUVHV P XVWEH UHDVRQDEO FORVH LQ VFRSH DQG FRQWHQW WR WKH ELRORJ\ FRXUVHV RIIHUHG DW8 1(LQRUGHUWR FRQWDV H[DFW HTXLYDBHQW 0`BQBWKQW`BQBYQWRFRS \WP PUH[XR S@PBBXVHELWWUEH]UE8p1(LQWEDTXDWEDWW0ÊHBHQL QW

8 QLYHUVLWV RI 1 HZ (QJODQG &DPEULGJH 8QGHUJUDGXDWH 1 R 7RS 3 KRVRV

0 DWKHP DWLFV

' HJUHH %DFKHORUV 6 FLHQFH ZLWK D P DWKHP DWLFV

&RQGXFW $ UWV DQG 6 FLHQFHV

' HSDUWP HQW0 DWKHP DWLFV

&RQWDFW' U6 XVDQ* UD\ &KDLU VJUD\ # XQH HGX

0 LVVLRQ 6 WDWHP HQW

0 DWKHP DWLFV LV FHQWUDO WR HIIHFWLYH FRP P XQLFDWLRQ FUXFLDO WR HYHU\RQH P DNLQJ ,W VWXG\ HQGDQHUV D OEHUDO DUWV HGXFDWLRQ E\ H[SRVLQJ VWXGHQWV WR WKH P HWKRGV DQG SKLORVRSKLHV RI TXDQWLWDWLYH DQDO VLV DQG WKH URGH P DWKHP DWFV SOD\ V LQ WKH P RGHUQ ZRUOG 7KH' HSDUWP HQW0 DWKHP DWFDC6 FLHQFHV RIIHUV FRXUVHV DQG RSSRUWXQLWLHV VXSSRUWQJ VWXGHQWV DQG IDFXOW\ WR SXUVXH TXDQWLWDWLYH LQTXLUHV

0 DWRU3 URJUDP ' HVFUSWRQ

7KH EDFKHORUV VFLHQFH P DWRULQ P DWKHP DWFV SURYLGHV VWXGHQWV ZLWK D VWURQJ WKHRUHWLFDO URXQGLQJ LQ WKH P DWKHP DWFV DQG H[SRVXUH WR D YDULHW\ RI DSSOLFDWLRQV 0 DWKHP DWFV P DWRUV HQJDJH LQ UHVHDUFK LQ DQ DUHD RI LQWHUHVW GXULQJ WKHLU VHQLRU \HDUDQG WKH UHFHLYH P RGHOQ ZRUOG 7KH' HSDUWP HQW P DWKHP DWFV VWDWLVWLFV DQG P DQ\ RWKHU IHOORZ 0 DWKHP DWFV P DWRUV DUH DOVR SUHSDUHG IRUIXXUH DGYDQFHG VWXG\ LQ P DWKHP DWFV VWDWLVWLFV DQG RWKHU JUDGXDWH DUHDV 7KH FXUULFXOXP LQFRUDWHV FRP SXWDWLRQDQG RWKHUWHFKQRORJ\ EDVHG DSSURDFKHV WR GHP RQVWUDWH WKH P RGHUQ SUDFWLFH RI P DWKHP DWFV 7KH &RORUDGR \ DUHDV FRQWLQXH WR HPSKDVL]H WKH LPSRUWDQFH RI P DWKHP DWFV WR VWXG\ WKH WHFKQLQJ DQG GHYHORS DV WHFKQRORJ\ DQG LQFUHDVH P DWKHP DWFV FRXUVH RIIHUHG DV8 1 (LQ RUGHUWR FRQWDV H[FHVVHTXLYDOHQW 2 WKHUZLVH WKH\ ZLOOWDQVIHUDV JHQHUDOHGHFWLYHV $OOSUHYLRXV0 FRP SOHWHG P DWKHP DWFV FRXUVHV P XVWEH QR RGHUWKDQ ILYH \HDUV SURRUWR P DWFXODWRQ DV8 1 (2 WKHURSWRQV DQG UHVWULFWRQV DSSO6 HH 8 QGHUJUDGXDWH$ GP LVVLRQV DYR

&XUULFXOXP5 HTXLUHP HQW

&UHGLW

8 QLYHUVLW &RUH5 HTXLUHP HQW H[FXGLQJ P DWKHP DWFV
3 URJUDP 5 HTXLUHG &RXUVHV
0 $7 &DOFXOXV ,
0 $7 &DOFXOXV ,,
0 $7 &DOFXOXV ,,,
0 $7 $SSOHG0 DWKHP DWFV ZLWK' LIHUHQWDO(TXDWRQV
0 $7 / LQHDU$ OJHEUD
0 $7) RXQGDWRQV RI 0 DWKHP DWFV
0 $7 * HRP HWU
0 $7 $ EVWDFW$ OJHEUD
0 $7 0 DWKHP DWFDC3 UREDELOLW DQG 6 WDWLVWFV
0 $7 5 HDO$ QDO\VLV
0 $7 &RP SOH[$ QDO\VLV
0 $7 0 DWKHP DWFV 5 HVHDUFK 6 HP LQDU
3 URJUDP 0 LQLP XP 5 HTXLUHG 7RWDO&UHGLW
6 FLHQFH (OHFWLYH &UHGLW
2 SHQ(OHFWLYH &RXUVHV Q HHGHG WR UHDFK FUHGLW YDULDEOH
0 LQLP XP 5 HTXLUHG 7RWDO&UHGLW

6 HFRQGDU (GXFDWRQ &HUWLFDWRQ

6 WXGHQW P DYRULQJ LQ P DWKHP DWFV ZKOH ZRUNLQJ WRZDUG VHFRQGDU P DWKHP DWFV WHDFKHUFHUWLFDWRQ ZLOOLQGP RGHO LQWKFWRQ SUHSDUDWLQ WKH IRUFDUHHUV LQ WDFKLQ P DWKHP DWFV DWKH VHFRQGDU OHYHO 7KH GHSDUWP HQWRIHU V P DWKHP DWFV

0HGLFDO%LRORJ\ 0HGLFDO6FLHQFHV 7UDFN 0('

' HJUHH %DFKHORURI 6FLHQFH ZLWK D PDUULQ0HGLFDO%LRORJ\ 0HG
7UDFN

&RQFHQWUDWLRQ6FLHQFHV

' HSDUWPHQW%LRORJLFDO6FLHQFHV

&RQWDFW' U6WHSKDQ=HPP DQ ,QVWUXP &KDLU VJHPP DQ# XQ

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%LRORJ\ LV DQH[SORUDWRU\ VFLHQFH ZRUOGWDWQRI WKHOLYLQJ ZRUOG WKDWXQGHUVFRUHV DQGH[
KXP DQHQGHDYRULQ WKDWWDIIHFW XV DOO %HFDXVH ZHOYH DWWLV WP H
EHD ELRBJLFDOJH± VWXGHQW P XWEH DEOH WR DSSO\ ELRBJLFDOFRQF
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0DWRU3URJUDP ' HVFULSWRQ

7KH P HGLFDOELRBJ\ P DWULV GHVLJQHG WR SURYLGH D VWRQJ IRXQGDWRQ L
SXUXHFDUHUV LQKXP DQP HGLFLQH GHQWWU RWKHUKDOWK SURHVVLRQV
ELRMFKQRBJ\ LQGXVW 6WGHQW LQWHP HGLFDOELRJ\ P DWUFDQ
WDFN DQG SUHSK\VLDQ DVVLVWDQWWDFN

7KH P HGLFDOVFLHQFHV WDFN SURYLGHV VWXGHQW ZLWK D VROG IRXQGDWQ
WWVXH RUJDQ DQG RUDQLVP DOOHY HQ ,QDGGLWRQ WR WKH FRP SUHKHQVLYH
WDFN LQWRGXFH WKH VWXGHQW WR WKH ILHOGV RI SK\VLRBJ\ ELRFKHP LVW
WRVH FRXUVHV WKDWUH SUH UHTXLVLWH FRXUVHV IRUHQWDQFH LQWR P HG
7KHUDS\ 2FFXSDWQDO7KHUDS\ DQG RWKHUKDOWK SURHVVLRQDOSURJU
VWXGHQW WR EHFRP H IDP LDUZ LWK WKH P RVWS WR GWWDERUDWRU\ WHFK
VWXGHQW ZKR ZLVK WR HQMUJUDGXDWH VFKRRO LQ WKH ELRP HGLFDOFLHQF
VWXGHQW LQ WKLV WDFN KDYH WKH RSSRUWQLW WR FRP SOHWH RI FDP SXV LQM
ODERUDWU VHWWQJ

7KLV SURJUDP LV GHVLJQHG IRU SUH P HGLFDOVWXGHQW SUH GHQDOVWXGHQW
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&RPSHWHQWSWHWRX\BQRVBQHGBGDWDQRWKHUFFUHGLWHGFROOHJH FDQEH
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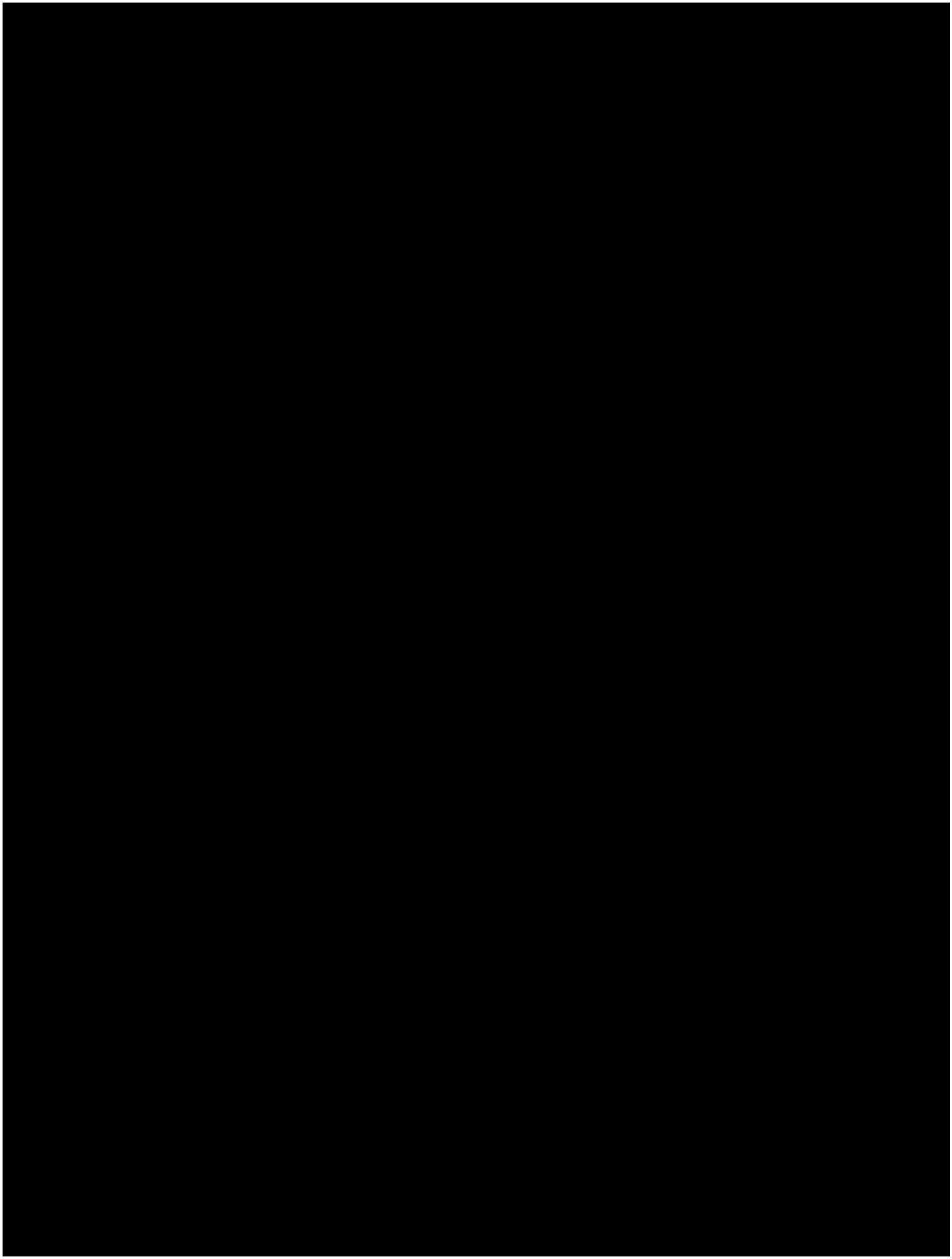

8QLY HUVLWLR1HZ (QJODQG &DQDGD 8QGHUJUDG 0HGLFDO(GXFDWLRQ 3UH3$ 0DWU

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8QLY HUVLWWR1HZ (QJODQG &DQFHU 8QGHUJUDG 0HGLFDO(GXFDWLRQ\ 3UH3$0DWU

Bachelor of Science in Nursing (R.N. to B.S.N.)

Degree: Bachelor of Science in Nursing (B.S.N.)

College: Health Professions

Department: Nursing and Health Science Management

Contact: Diana M. Crowell, Ph.D., RN, CNAA, B.C., Director (Interim) dcrowell@une.edu

Mission Statement
Major Program Description
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Accreditation
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Transfer Credit and Advanced Standing
Curricular Requirements
Program Standards
Financial Information
Graduation Requirements
Department Website

Mission Statement

The mission of the Department of Nursing is to educate tomorrow's nurses to be effective clinicians and leaders who strive to improve the health of all people. The baccalaureate level builds upon prior learning to prepare the graduate as a provider of care, educator to groups and communities, consumer of research and leader in the profession of nursing.

Philosophy

Nursing, a caring art and science, encompasses the diagnosis and treatment of human responses to health and illness. The faculty believes that nurses use the nursing} a ienencr

- Detect changes in skin temperature
- Detect unsafe temperature levels in heat-producing devices used in patient care
- Detect anatomical abnormalities, such as subcutaneous creptitus, edema, or infiltrated intravenous fluid
- Perform techniques such as the insertion of urinary catheters

Strength and mobility must be sufficient to perform patient care activities and emergency procedures. Examples of relevant activities (nonexclusive):

- Safely transfer patients in and out of bed and assist them with ambulation using appropriate assistive devices
- Safely control the fall of a patient, by slowly lowering the patient
- Turn and position patients as needed to prevent complications due to bed rest
- Hang intravenous bags at the appropriate level
- Accurately read the volumes in body fluid collection devices hung below bed level
- Perform cardiopulmonary resuscitation

Fine motor skills must be sufficient to perform psychomotor skills integral to patient care. Examples of relevant activities (nonexclusive):

- Safely dispose of needles in sharps containers
- Accurately place and maintain position of stethoscope for detecting sounds of bodily functions
- Manipulate small equipment and containers, such as syringes, vials, ampules, and medication packages, to administer medications

Physical endurance sufficient to complete assigned periods of clinical practice and to function effectively under stress in acute health care situations.

Ability to speak, comprehend, read, and write English at a level that meets the need for accurate, clear, and effective communication.

Emotional stability to function effectively under stress, to work as a part of a team and to respond appropriately to supervision; to adapt to changing situations, to respond appropriately to patients and families under stress, and to follow through on assigned patient care responsibilities.

Cognitive ability to collect, analyze, and integrate information and knowledge to make clinical judgments and management decisions that promote positive patient outcomes.

Other Abilities sufficient to demonstrate competencies such as the ability to arrive to a clinic on a timely basis; to meet the demands for timely performance of duties; to meet the organizational requirements to perform these duties in a professional and competent manner.

Transfer Credit and Advanced Standing

1. ADN and RN candidates for the BSN Completion Program will receive a degree audit for their prior course work. These credits fulfill all pre-requisite course requirements for the third and fourth year courses. Evidence of the maintenance of clinical competence, usually through current employment, must be provided.
2. Academic credits are transferable if a grade of “C” or better was earned.
3. Diploma-based candidates who are active in the practice of nursing will be awarded 30 credits for nursing courses, up to a maximum of 60 transfer credits.
4. Diploma-based candidates, not actively participating in the practice of nursing, may submit a portfolio for transfer of nursing credits upon completion of the Health Assessment course in the fall semester. An alternative mechanism for transfer of nursing credit is to take the NLN Mobility II exam, if not active in practice.
5. Students who qualify may be able to complete the program in as little as one year.

See University Undergraduate Admissions also.

Curricular Requirements

Minimum Transfer Credits (RN)/(ADN)	60
Fall, Year 3 (Semester 1)	
NSG 301 - Nursing Theory	3
NSG 302 - Health Assessment	3
NSG 303 - Managing the Challenges of Disability	3
Humanities Elective (United States) or ENG 110 (Israel)	3 or 4
Nursing Elective	3
Total	15/16
Spring, Year 3 (Semester 2)	
NSG 304 - Families in Crisis	3
NSG 305 - Health Education in the Community	3
MAT 120 - Statistics	3
Humanities Elective	3

Nursing Elective	3
General Elective	3
Total	18
Total First Year	

Fall, Year 4 (Semester 3)
NSG 401 - Nursing Research Methods
NSG 402 - Community Health Nursing (Theory and Practice)
Humanities Elective
Economics or Political Science course or HSM course
Total
Total minimum total credits required for Nursing degree completion
Spring, Year 4 (Semester 4)

NSG 403 - Leadership and Management Nursing (Theory and Practice)	6
Humanities Elective	3
Pathophysiology	3
General Elective (Not required of branch campus in Israel)	3
Total	15
Total Second Year	30/27

Minimum Total Required Credits*	123/121

*Credit for developmental coursework is not reflected in the minimum total credits required for degree completion.

1.

This Catalog documents the academic programs, policies, and activities of the University of New England for the 2008-2009 academic year. The information contained herein is accurate as of date of publication August 1, 2008.

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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&RQWDFW5HJLVWUDU-DQ) URHK@Ð P

8QLYHUVLWRI1HZ(QJODQG &DQEHUUD 8QGHUJUDG 2FFXSDWLRQDO7KHUDS\0DVWU

(YDOXDWLQJ LQIOXHQFHV LQIUDVWUXFWXUH GHYHORSPHQWHILFDFLRXV LQIUDVWUXFWXUH DFURVV WKH OLIHVSDQ EDVHG RQ D WKHRUHWLFDOIUDPHZRUN

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DFKLHYHWKLV*3$ZLOOEHGLVPLVVHGIURPWKHSURJUDP $WWKHHQGRIDVWXGHQW\HDUKH RUVKHPXVWKDYHDFKLHYHGDPLQLPXP*3$RI WRFRQWLQXHDVDSURJUDP27PDVWHU

- ,QWURGXFWLRQDOVNLOOVWKDWWRFXGHSDUWPLSDWLQJ LQFOXVLRQ GLVFXVVLRQ FRQGXFWLQJ LQWHUYLHZV REVHUYLQJ VXEWOHERGLO FXHV OLVWHQLQJ UHVSRQGLQJ NRQWURDOHGQHVV DQG GHYHORSLQJ SRVLWLYH UHVSHFWXOFFOHQWKUDSLVWUHODWLRQVKLSV
- 0RQLWRULQJ DVVHVVLQJ SHUFRUP DQFH RI VHD DQG RWKHUV DQG P DNLQJ DGMXVWPHQWV LQ EHKDYLRURUSURP RWQJ EHKDYLRUDOFKDQJH LQ RWKHUV WR HQKDQFH RFFXSDWLRQDOSHUFRUP DQFH
- 5HDGLQJ ZULWLQJ VSHDNLQJ DQG XQGHUVWDQGLQJ (QJOLVK LQ RUGHUWR GHYHORS SRVLWLYH FOHQWDDWLRQVKLSV FRP SOHWHZULWWHQ GRFXP HQWDWLRQ FRQVLVWHQWZLWK2 7 SUDFWLFH DQG SDUWLFLSDWH DV DKHDOWK FDUH WHDP P HP EHU
- 6XIILFLHQWSRVWXUDODQG QHXURP XVFXODUFRQWURO DQG VHQVRU\ IXQFWLRQLQJ LQ RUGHUWR SHUFRUP SK\VLFDO EDODQFH UDQJH RI P RWRQ DQG WKHQJWK DQG WKH DFFXUDWH DVVHVVP HQWWRRO HTXLSP HQWDQG RWKHUP DWHULDOV GXULQJ RFFXSDWLRQDOWKHUDS\ LQWHUYHQWLRQ
- (P RWRQDOVDELOLWLWR EH DEOHWR WKHWHVWLQD XVXDOKDQGHWHVWLQJ GRPDLQFXV RQ KHOSLQJ RWKHUV EHLQ GRPHGHEEGH P HHWLQJ FRP P LWP HQW EHLQ IRUWKFRP LQJ DERXWRQHV RZ QHHGV DQG FRQGXFWLQJ RQHV VHDLQD SURHVVLRQDO P DQQHUGXULQJ DOZRUNLQJ KRXUV
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UHTXLUHG &RQVHTXHQWO UHTXLUHP HQWV P D\ YDU\ DP RQJ DFDGHP LF SURJUDP V DQG WKH DFWXDO LHGZ RUN H[SHULHQFHV P D\ EH LP SOHP HQWHG LQ D QXP EHU RI GLIIHUHQW WZ D\ V

6XSHUYLVRP XVWEH SURYLGHG E\ TXDOLILHG SHUVRQQHO 7KH\ P D\ LQFOXGH RFFXSDWLRQDO WKHUDS\ SHUVRQQHODQG RWKHUSSURSULDWH SHUVRQQHOVXFK DV WKDFKHU VRFLDOZ RUNHUV SXEOLF KHDOWKQXUVHV P LQLVWHUV SUREDWLRQ RIILFHUV DQG SK\VLFDOWHUDSLVWV

/ HYHO) LHGZ RUN H[SHULHQFH ZKLFK LQWHJD SURYLGHV WKH VWXGHQWZ LWK H[SRVXUH VRF DOLFDOSUDFWLFH WKURXJK REVHUYDWRQ SURJUHVVHV ZLWK LQFUHDVLQJ H[SHFWDWRQV RI WKH VWXGHQW WKHP RQWKH DVVLJQ HGDQG H[DP LQH UHDFWRQV VRF OHQW DQG SDWHQW VHO SHUVRQDO DQG WKH SURHVVLRQ * HQHUDO WKH ILHGZ RUN HGXFDWRQ FHQWUSURYLGHV REVHUYDWRQ DOSSRUWXQLWHV KDQGVRQ H[SHULHQFH DV DSSURSULDWH 7KH FHQWUUFRRSHUDWHV ZLWK DFDGHP LF DVVLJQP HQW DQG SURYLGHV DZ UWWQ HYDOXDWRQ RI WKH H[SHULHQFH

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7KH VWXGHQW W H[SHFWWG WR GHYHOOS VNLOOV DQG DELOLWHV LQ WKH IROORZLQJ

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HVWDEOLVKLQJ SRVLWWH Z RUNLQJ UHDWRQVKLSV Z LWK VWDII

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IRUP XDWQJ JHQHUDOZKHUSHXWF JRDOV DQG REMFWLYHV

FRP P XQLFDWQJ LQ Z UWQJ FHDU FRQFLVH DQG SURFHVVRQDO DQG

DVVLVWQJ LQ WKH UDSHXWF DFWLYLW SURFHVV

/ (9 (/ ,,
/ HYHO,) LHGZ RUN LV LQWQGHG WR HP SKDV] H WKH DSSOFDWRQ RI DQ DFDGHP LFD OO DFTXLUHG ERG\ RI NQRZ OHGJH E\ SURYLGQJ WKH VWXGHQW Z LWK DQ LQ GHSWH[H[SHULHQFH LQ GHDY HU RI RFFXSDWRQDOWKUDS\ VHUYLFH VWXDWHQW 7KH (VVHQWQDOY UHTXLUH/ HYHO ,,) LHGZ RUN H[SHULHQFH IRUEERWK RFFXSDWRQDOWKUDS\ DQG RFFXSDWRQDOWKUDS\ DVVLVWQJWWXGHQW

5 HTXLUHP HQW HVWDEOVKHG LQ WKH (VVHQWQDOY IRU/ HYHO,) LHGZ RUN VSHFLLF WR RFFXSDWRQDOWKUDS\ VWXGHQW LQFOXGH WKH IROORZLQJ

D P LQLP XP RI VI[P RQWV Z HHNV IXOOP H RI / HYHO,) LHGZ RUN H[SHULHQFH SUHUDE\ Z LWK DWWHDVWWKUH H P RQWV RQ D IXOOP H VXWWLQG EDVLV

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0 DVWHURI 6 FLHQFH LQ 2 7 SURJUDP

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2 75) RXQGDWRQV RI 2 7
2 75 $ QDWVLV RI 2 FFXSDWRQ
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2 75 &RP P XQLW 3 UDFWXP ,
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2 75 5 HVHDUFK SURMHFW
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2 75 ' LP HQVRQV RI $ GXOWRRG² 1 HZ 0 $ FTXLUHG' LVDELOW 1 $'
2 75 2 FFXSDWRQDO8 HURUP DQFH LQ $ GXOWRRG 1 $'
2 75 ' LP HQVRQV RI $ GXOWRRG² / LYLQJ Z LWK' LVDELOW /: '
2 75 2 FFXSDWRQDO8 HURUP DQFH LQ $ GXOWRRG /: '
2 75 &RP P XQLW 3 UDFWXP ,,
2 75 3 UREOP %DVHG/ HDUQLQJ $ GXOW 3%/
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7RWWO
3 URFHVVRQDO,, 6 XP P HU6 HP HVWHU &KLOGUHQ DQG <RXWK
2 75 %LRSV\ FKRVRFLDO LP HQVRQV RI &KLOGUHQ DQG <RXWK
2 75 2 FFXSDWRQDO8 HURUP DQFH LQ &KLOGUHQ DQG <RXWK* URXS 3 URFHVV / HDGHUVKLS
2 75 ±3%/² &KLOGUHQ DQG <RXWK

2 75 &RP P XQLW3UDFWLFXP ,,,
2 75 +HDOWK&DUH0DQDJHPHQW ' HOLYHU
2 75 * URXS/HDGHUVKLS
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) DOOVHP HVWHU P XVWEHFRP SOHWHG EHIRUH3URIHVVLRQDO9 VHP HVWHU
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