Kingsborough Community College

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College C t log

Kingsborough Community College
Catalog 2012-2013

H ;88242H;3H(52H 6@EH):6B2>?6@EH;3H"2CH-;>7

PLEASE NOTE: Any additions and/or revisions made after September 2012 can be viewed on the Kingsborough Community College website at *www.kbcc.cuny.edu*.

'@E>J9FIFL>?ℤCFDDLE@KPℤCFℂ<><
2001ℤ+I@<EK8ℂZBFLℂ<M8I;
BIFFBℂPE,ℤ*<NZ5FIBℤ11235-2398
(718)ℤC-+-(-(-!-#-!
>>>.2)**.*<5@.,+<
AℤCFℂ<><ℤF=Z0?<ℤC@KPℤ1E@M<IJ@KPℤF=ℤ*<NZ5FIB

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,I<J@;<EK,ZB.A.,Z).B.A.,Z!;. .

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2@:<Z,I<J@;<EKZ=FIZA:8;<D@:ZA;D@E@JKI8K@FEZ8E;Z,IF>I8DZ,C8EE@E>Z8E;Z <M<CFGD<EK,,ZB.A.,Z).A.,Z!;. .

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2@:<Z,I<J@;<EKZ=FIZA:8;<D@:ZA==8@IJZ8E;Z,IFMFJK,ZB.A.,Z).A.,Z,?. .

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AJJ@JK8EKZ2,Z=FIZCFCC<><ZA;M8E:<D<EK,ZA.A.,ZB.A.,Z)./.,Z!;. .

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<8EZ=FIZ/KL;<EKZA==8@IJ,ZB.A.,Z)./.3

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AJJ@JK8EKZ2,Z=FIZA:8;<D@:ZA==8@IJZ8E;ZAJJF:@8K<Z,IFMFJK,ZB.A.,Z).A.,Z,?. .

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<8EZF=Z%EJK@KLK@FE8CZ.<J<8I:?,ZAJJ<JJD<EKZ8E;Z,C8EE@E>,ZB.A.,Z).A.,Z,?. .

Thomas Friebel
<8EZF=Z!EIFCCD<EKZ)8E8><D<EK,ZB.A.

Saul W. Katz
<8EZF=ZCFEK@EL@E>Z!;L:8K@FE,ZB./.,Z).A.,Z!;. .

Babette Audant
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William Correnti
!O<:LK@M<Z @I<:KFIZ=FIZ"@J:8CZA==8@IJ,ZA.A./.,ZB./.

Loretta DiLorenzo
AJJF:@8K<Z <8EZ=FIZA:8;<D@:Z,IF>I8DJ,ZB.A.,Z)./.!;.,Z!;. .

Lavita McMath Turner
@I<:KFIZF=Z#FM<IED<EKZ.<C8K@FEJ,ZB./.,Z)./.

Peter Pobat
!O<:LK@M<ZC?@<=ZF=Z/K8==,ZB.A.,Z).A.

Ruby Ryles
@I<:KFIZF=Z,L9C@:Z.<C8K@FEJ,ZA.A./.,ZB./.,Z).A.

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KINGSBOROUGH COMMUNITY COLLEGE

Overview

"FLE;<;Z@EZ1963,Z'@E>J9FIFL>?ZCFDDLE@KPZCFCC<><
J<IM<JZ8GGIFO@D8K<CPZK?@IKPZK?FLJ8E;ZJKL;<EKJZG<IZP<8I,
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Our Vision

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JK8K<D<EKZJ8PJ,ZT'@E>J9FIFL>?ZCFDDLE@KPZCFCC<><ZJ?8C
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@E;@M@;L8CZ8E;Z:FCC<:K@M<Z8:K@FEJZ:FEKI@9LK<ZKFZJKL;<EK
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?@>?ZHL8C@KPZ8E;Z:FEK@ELFLJZ@DGIFM<D<EKZ@EZ8CCZ8I<8JZI<C8K<;
KFZJKL;<EKZC<8IE@E>,Z@E:CL;@E>ZK?<Z=8:LCKP,Z@EJKIL:K@FE8C
GIF>I8DJ,ZJKL;<EKZJ<IM@:<J,Z8;D@E@JKI8K@M<Z8E;ZJLGGFIK
JK8==,Z8E;ZK?<Z:8DGLJZ<EM@IFED<EK.Z%EZ8;;@K@FE,
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What We Offer

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8:8;<D@:ZGIF>I8DJ.

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:FDDLE@KPZ:FCC<><,ZF==<I@E>Z8Z9IF8;Z8II8PZF=Z<;L:8K@FE8C
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J@FE,Z=FCCFN<;Z9PZ8EZFGK@FE8CZ6-N<<BZDF;LC<.

Kingsborough – Brooklyn's Community College

AJZBIFFBCPESJZ:FDDLE@KPZ:FCC<><,Z'@E>J9FIFL>?ZJGFEJFIJ
?LE;I<;JZF=Z:FDDLE@KPZ<M<EKJZ<8:?ZP<8IZK?8KZ8KKI8:KZM@J@-
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Looking Toward The Future

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Accreditation

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(*(*AC)Z8::I<;@KJZK?<Z*LIJ@E>Z,IF>I8DZ8E;ZK?<
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K?<Z/K8K<ZF=Z*<NZ5FIB,Z+==@:<ZF=Z$@>?<IZ!;L:8K@FE,Z5
*FIK?Z)<QQ8E@E<ZWZ!;L:8K@FEZBL@C;@E>,ZAC98EP,Z*5Z12234.

0?<ZCFCC<><Z@JZ8ZD<D9<IZF=ZK?<ZAD<I@:8EZAJJF:@8K@FEZF=
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CFDDLE@KPZCFCC<><;ZK?<Z$@JG8E@:ZAJJF:@8K@FEZF=ZCFCC<><J
8E;Z1E@M<IJ@K@<J;ZZK?<ZAJJF:@8K@FEZF=ZAD<I@:8EZCFCC<><J
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$@>?<IZ!;L:8K@FEZ%EJK@KLK@FEJZ@EZ*<NZ5FIBZC@KP;Z&LE@FI
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CUNY Tobacco-Free Policy

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GIFTS AND BEQUESTS

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CATALOG

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" # (HH 24>22H>2=A6>2 9 2 : @?H . >2H / . ?21H ; : H@52 . 0 . 1 2 9 60 E2 . >H ; >H@2> 9 HC52 : H@52H?@A12 : @H 9 . @>60A8 . @2? 6 : @ ; H . H0A>>60A8A 9 H . : 1H : ; @H / . ?21H? ; 828EH ; : H@52H1 . @2 ; 3H . 1 9 6??6 ; : H@ ; H@52H0 ; 88242 H

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,IFJG<:K@M<ZJKL;<EKJZN?FZ8I<Z@EK<I<JK<;Z@EZ8KK<E;@E>

AFFIRMATIVE ACTION

%KZ@JZK?<ZGFC@:PZF=Z0?<ZC@KPZ1E@M<IJ@KPZF=Z*<NZ5FIBZ8E;ZK?<:FEJK@KL<EKZ:FCC><JZ8E;ZLE@KJZF=Z0?<Z1E@M<IJ@KPZKFZI<:IL@K,<DGCFP,ZI<K8@E,ZGIFDFK<,Z8E;ZGIFM@;<Z9<E<=@KJZKF<DGCFP<<J 8E;ZKFZ8;D@KZ8E;ZGIFM@;<ZJ<IM@:<JZ=FIZJKL;<EKJN@K?FLKZI<>8I;ZKFZI8:<,Z:FCFI,ZE8K@FE8CZFIZ<K?E@:ZFI@>@E,I<C@>@FE,Z8><,ZJ<O,ZJ<OL8CZFI@<EK8K@FE,Z><E;<IZ@;<EK@KP,D8I@K8CZJK8KLJ,Z;@J89@C@KP,Z><E<K@:ZGI<;@JGFJ@K@FEZFIZ:8II@<IJK8KLJ,Z8C@<E8><,Z:@K@Q<EJ?@G,ZD@C@K8IPZFIZM<K<I8EZJK8KLJ,ZFIJK8KLJZ8JZM@:K@DZF=Z;FD<JK@:ZM@FC<E:<.Z

/<OL8CZ?8I8JJD<EK,Z8Z=FIDZF=ZJ<OZ;@J:I@D@E8K@FE,Z@JGIF?@9@K<; LE;<IZK?<Z1E@M<IJ@KPSJZ,FC@:PZA>8@EJKZ/<0L8C$8I8JJD<EK.Z

0?<ZC@KPZ1E@M<IJ@KPZF=Z*<NZ5FIB,Z8JZ8ZGL9C@:ZLE@M<IJ@KPJPJK<D, 8;?<I<JZKFZ=<;<I8C,ZJK8K<,Z8E;Z:@KPZC8NJZ8E;I<>LC8K@FEJZI<>8I;@E>ZEFE-;@J:I@D@E8K@FEZ8E;Z8==@ID8K@M<8:K@FEZ@E:CL;@E>Z8DFE>ZFK?<IJ,Z!O<:LK@M<Z+I;<IZ11246,Z8J8D<E;<;,Z0@KC<JZ2%Z8E;Z2%ZF=ZK?<ZC@M@CZ.@>?KJZA:KZF=Z1964,0@KC<Z%4ZF=ZK?<Z!;L:8K@FEZAD<E;D<EKJZF=Z1972,Z/<:K@FEJ503Z8E;Z504ZF=ZK?<Z.<?89@C@K8K@FEZA:KZF=Z1973Z8E;ZK?<AD<I@:8EJZN@K?Z @J89@C@K@<JZA:KZF=Z1990,Z/<:K@FEZ402ZF=K?<Z2@<KE8DZ!I8Z2<K<I8EJSZ.<8;ALJKD<EKZAJJ@JK8E:<ZA:KZF=1974,Z8JZ8D<E;<;,ZK?<Z!HL8CZ,8PZA:KZF=Z1963,ZK?<ZA><@J:I@D@E8K@FEZ@EZ!DGCFPD<EKZA:KZF=Z1967,Z8JZ8D<E;<;8E;ZK?<ZA><Z @J:I@D@E8K@FEZA:KZF=Z1975,ZK?<Z*<NZ5FIB/K8K<Z$LD8EZ.@>?KJZ(8NZ8E;ZK?<Z*<NZ5FIBZC@KPZ$LD8E.@>?KJZ(8N.Z0?<ZTGIFK<:K<;Z:C8JJ<JU,Z8JZ;<C@E<8K<;Z@E!O<:LK@M<Z+I;<IZ11246Z(BC8:B,Z$@JG8E@:,ZAJ@8E/,8:@=@:%JC8E;<I,ZAD<I@:8EZ%E;@8E/AC8JB8EZ*8K@M<Z8E;Z3FD<E),N<I<Z<OG8E;<;ZFEZ <:<D9<IZ9,Z1976Z9PZK?<ZC?8E:<CCFIF=Z0?<ZC@KPZ1E@M<IJ@KPZF=Z*<NZ5FIBZKFZ@E:CL;<Z%K8C@8E-AD<I@:8EJ.

'@E>J9FIFL>?SJZA==@ID8K@M<ZA:K@FE/!HL8CZ+GGFIKLE@KP+==@:<IZ@JZCF:8K<;Z@EZIFFDZA-228Z8E;Z:8EZ9<ZI<8:?<;Z8K<OK<EJ@FEZ5026.ZZ0?<ZA==@ID8K@M<ZA:K@FEZ+==@:<IZ8CJFJ<IM<JZ8JZ'CCSJZ:FFI;@E8KFI=FIZ/<:K@FEZ504ZF=ZK?<AD<I@:8EZ @J89@C@K@<JZA:KZ8E;Z:FFI;@E8KFIZF=Z0@KC<Z%4,N?@:?ZGIF?@9@KJZ;@J:I@D@E8K@FEZFEZK?<Z98J@JZF=Z><E;<I.ZZ

"FIZK?<Z,I<J@;<EKSJZ)<JJ8><ZI<>8I;@E>ZA==@ID8K@M<ZA:K@FE,F@:P,ZJ<<Z K?<Z:FCC><><ZN<9J@K<,Z>>>.2)**.*<5@.,+<.

ACADEMIC CALENDAR

'@E>J9FIFL>?Z:FE;L:KJZ:C8JJ<JZFEZ8EZ@EEFM8K@M<Z8:8;<D@::8C<E;8I.C C8JJ<JZ8I<Z?<C;Z;LI@E>Z8Z12-N<<BZ=8CCZJ<JJ@FE,N?@:?ZJK8IKJZ@EZ/<GK<D9<IZ8E;Z<E;JZC8K<Z@EZ <:<D9<I.Z0?@JZ@J=FCCFN<;Z9PZ8Z6-N<<BZN@EK<IZDF;LC<ZK?8KZ<E;JZ;LI@E>"<9IL8IP.ZAZ12-N<<B JGI@E>ZJ<JJ@FEZJK8IKJZ8GGIFO@D8K<CP8KZK?<Z9<>@EE@E>ZF=Z)8I:?Z8E;Z<E;JZ@EZK?<ZD@;;<ZF=&LE<.Z0?@JZ@JZ=FCCFN<;Z9PZ8Z6-N<<B JLDD<IZDF;LC<N?@:?Z:FEK@EL<JZLEK@CZK?<Z<E;ZF=Z&LCP.Z0?<Z8:KL8CZK@D<ZF=<8:?Z;8PZ:C8JJZG<I@F;Z@JZ60ZD@ELK<J.

H 0.129 6OH .82:1.>HGH .88H(2>9

/<GK./+:K./*FM./ <: .....12Z3<<BJ
&8E./"<9 .....6Z3<<BJ

#:2H(A6@6;:

H 0.129 6OH .82:1.>HGH '<>6:4H(2>9

)8I/AGI/)8P/&LE< .....12Z3<<BJ
&LE</&LCP .....6Z3<<BJ

#:2H(A6@6;:H

)FJKZ=LCC-K@D<ZD8KI@:LC8K<;ZI<J@;<EKZJKL;<EKJZ@EZK?<;<>I<<ZGIF>I8DJ N?FZ8KK<E;<;ZK?<ZGI<M@FLJZ12-N<<BJ<JJ@FEZD8PZ8KK<E;ZK?<Z6-N<<BZJ<JJ@FEZN@K?FLKZ8;;@K@FE8CKL@K@FEZ=<<J.Z(,C<8J<ZI<=<IZKFZK?<Z@E=FID8K@FEZFEZI<J@;<E:P8E;Z:<IK@=@:8K@FEZLE;<IZK?<Z0L@K@FEZJ<:K@FEZF=ZK?<Z:8K8CF>.)

ADFE>ZK?<Z8;M8EK8><JZK?<Z6-N<<BZDF;LC<JZF==<IZ@JK?<ZFGGFIKLE@KPZKFZK8B<Z8;;<;Z:FLIJ<JZK?8K,Z@EZJFD<GIF>I8DJ,ZD8PZD8B<Z@KZGFJJ@9C<ZKFZ<8IEZK?<ZAJJF:@8K<<>I<<Z@EZC<JJZK?8EZKNFZ=LCCZP<8IJ.Z/KL;<EKJZN?FZ:?FFJ<ZKF8KK<E;ZFECPZK?<ZKNFZ12-N<<BZJ<JJ@FEJZ?8M<Z8EZFGGFIKLE@KPKFZJ<<BZ<DGCFPD<EK KFZ<8IEZ8;;@K@FE8CZ=LE;J,ZF9K8@E=@<C;Z<OG<I@<E:<,ZFIZKFZ=LC=@CCZ:F-FGZI<HL@I<D<EKJ.

ADMISSIONS INFORMATION & PROCEDURES

K?<ZCFC<><$JZI<HL@I<D<EKJZ=FIZ;F@E>ZJFZ8E;ZLJ<ZK?<@I
:I<;@KJZKFN8I;ZK?<@IZ;<>I<<.Z*FE-;<>I<<ZJKL;<EKJ 8I<
EFKZ<EK@KC<;ZKFZ=@E8E:@8CZ8@;.ZZCFEJLCKZK?<ZCFCC<><Z8:8;<D@:
:8C<E;8IZ=FIZ=@C@E>Z;8K<JZ8E;Z;<8;C@E<JZKFZ8GGCPZ=FI
D8KI@:LC8K@FE. "FIZ=LIK?<IZ@E=FID8K@FE,ZI<=<IZKFZK?<
;<K8@CJZLE;<IZK?<ZA:8;<D@:Z%E=FID8K@FEZJ<:K@FEZF=ZK?@J
:8K8CF>.Z

6>20@H#: @52 '<;@H 196??6;: AGGC@:8EKJZN?F
:LII<EKCP ?FC;Z8Z1./.Z?@>?ZJ:?FFCZ;@GCFD8,Z?8M<ZI<:<@M<;Z8
JK8K<Z#<E<I8CZ!HL@M8C<E:PZ @GCFD8Z9PZM@IKL<ZF=ZJ8K@J=8:KFIP
J:FI<JZFEZK?<Z#! Z<O8D@E8K@FEJ,ZFIZ:LII<EKCPZ8KK<E;ZFI
?8M<ZGI<M@FLJCPZ8KK<E;<;Z8EZ8::I<;@K<;Z1./.Z:FCC<><ZD8P
9<Z<C@>@9C<ZKFZ8GGCPZ=FIZGI<C@D@E8IPZ8::<GK8E:<ZKF
'@E>J9FIFL>?.ZZ"FIZ=LIK?<IZ@E=FID8K@FE,Z:8CCZK?<ZA:8;<D@:
2@CC8><ZC<EK<IZ8KZ718-368-6700.

" # (,C<8J<Z9<Z8N8I<ZK?8KZK?<Z=C8K,Z=LCC-K@D<ZKL@K@FEZI8K<
?8JZ9<<EZ<C@D@E8K<;Z=FIZEFE-I<J@;<EKJ.Z*FE-I<J@;<EK
JKL;<EKJ DLJKZG8PZG<IZ:I<;@KZI8K<JZ=FIZ8CCZK<IDJZ(@E:CL;@E>
DF;LC<J).

*ZAZK<IDZ:FEJ@JKJZF=Z<@K?<IZK?<Z"8CCZJ<JJ@FEZGCLJZ3%*0!.
DF;LC<ZFIZK?<Z/,.%*#ZJ<JJ@FEZGCLJZ/1))!.ZDF;LC<.

+ 0?<ZELD9<IZF=Z:I<;@KJZ=FIZ<8:?Z:FLIJ<Z@JZ@E;@:8K<;ZN@K?
:FLIJ<ZK@KC<Z8E;Z;<J:I@GK@FE.

++ !HL8K<;Z:I<;@KJZG<IK8@EZKFZEFE-:I<;@KZ;<M<CFGD<EK8CZ:FLIJ<J.
/<<Z:FLIJ<Z;<J:I@GK@FEJ.

Permit Students

/KL;<EKJZFEZG<ID@KZ=IFDZ8EFK?<IZC1*5Z:FCC<><ZN@CCZG8P
KL@K@FEZ8KZK?<@IZ?FD<Z:FCC<><.ZZ,<ID@KJZD8PZ9<ZJL9D@KK<;
<C<:KIFE@:8CCPZFEC@E<ZK?IFL>?ZK?<ZC1*5ZGFIK8CZ8K
>>>.*<5@.,+<. AGGC@:8K@FEJZDLJKZ9<Z=@C<;ZN<CCZ@EZ8;M8E:<
F=ZK?<Z;<8;C@E<Z;8K<Z<JK89C@J?<;Z9PZK?<Z?FJKZ:FCC<><ZJ@E:<
J<M<I8CZ8I<8JZDLJKZ8GGIFM<ZK?<ZG<ID@K.ZZ/KL;<EKJZN?F
I<>@JK<IZ8E;ZJL9J<HL<EKCPZ:8E:<CZK?<@IZG<ID@KZN@K?FLK
;C<K@E>ZK?<@IZ:FLIJ<Z8I<ZJL9A<:KZKFZG<E8CKPZ>I8;<JZ=IFDZK?<
?FJKZ:FCC<><ZK?8KZN@CCZ8GG<8IZFEZK?<@IZ'@E>J9FIFL>?
KI8EJ:I@GKZ8E;Z8IKIKJ11(I)-11(F)-11(J)A39(8)-11(IK:11(?)-11(8)-11(K)K11(F)-11(I)-11(K)K11(F)L11(Z)-3

Tuition Refund Policy

%EZ><E<I8C,ZEFZGFIK@FEZF=ZK?<Z/KL;<EKZA:K@M@KP,
)@J:<CC8E<FLJ,Z,<E8CKPZFIZ/G<:@8CZ"<<J N@CCZ9<ZI<=LE;<;.
AZJKL;<EKZN?FZN@K?;I8NJZ8=K<IZK?<ZJ:?<;LC<;ZFG<E@E>
;8K<ZF=ZK?<ZJ<JJ@FE,ZFIZ;LI@E>ZK?<ZK<ID,ZN@CCZI<:<@M<
KL@K@FEZI<=LE;JZ8::FI;@E>ZKFZK?<Z=FCCFN@E> J:?<;LC<*
(=LCC-K@D<ZJKL;<EKJZN?FZ;<:I<8J<ZK?<@IZ:I<;@KZCF8;ZN@CCZ9<
:?8I><;ZG<IZ:I<;@K).ZC8CCZBLIJ8ISJZ+==@:<Z8KZ718-368-5416,
IFFDZA-205.

8K<ZF=Z"FID8Z 3@K?;I8N8Z =IFDZCFLIJ<(J)ZFIZCFCC<><><	"8CCZ&Z/GI@E> /<JJ@FEJ	3@EK<IZ&Z/LDD<I)F;LC<J

B<=FI<ZJ:?<;LC<;ZFG<E@E>Z;8K<...100%Z 100%
3@K?@EZJ@OZ:8C<E;8IZ;8PJZ8=K<IZ
J:?<;LC<;ZFG<E@E>Z;8K<Z.....75%Z 50%
B<KN<<EZJ<M<EK?Z8E;ZKN<C=K?Z:8C<E;8IZ
;8PJZ8=K<IZJ:?<;LC<;ZFG<E@E>Z;8K<....50%Z 25%
B<KN<<EZK?@IK<<EK?Z8E;ZJ<M<EK<<EK?Z
:8C<E;8IZ;8PJZ8=K<IZJ:?<;LC<;Z
FG<E@E>Z;8K<Z .....25% .....EFE<
B<PFE;ZJ<M<EK<<EK?Z:8C<E;8IZ;8PZ
8=K<IZFG<E@E>Z;8K<Z.....EFE<.....EFE<
/?FLC;ZK?<ZJ@OK?,ZKN<C=K?,ZFIZJ<M<EK<<EK?Z;8PZ=8CCZFEZ8

%=ZJKL;<EKJZI<:<@M<ZK?<Z8N8I;Z:<IK@=@:8K<ZGI@FIZKF
I<>@JKI8K@FE, KL@K@FEZN@CCZ9<ZI<;L:<;Z9PZK?<Z8DFLEK
JK8K<; FEZK?<Z:<IK@=@:8K<.Z%=Z:<IK@=@:8K<JZ8I<ZI<:<@M<;Z8=K<I
I<>@JKI8K@FE,ZJKL;<EKJZDLJKZG8PZK?<ZKL@K@FEZ8KZK?<ZK@D<ZF=
I<>@JKI8K@FEZ8E;ZN@CCZI<:<@M<Z8ZI<=LE;ZF=ZK?<Z0A,Z8N8I;
;LI@E>ZK?<ZJ<D<JK<I.

Eligibility for TAP

0FZ9<Z<C@>@9C<Z=FIZ0A,,ZJKL;<EKJZDLJKZ9<:

1. *<NZ5FIBZ/K8K<ZI<J@;<EKJ,
2. 1./.Z:@K@Q<EJZFIZG<ID8E<EKZI<J@;<EKJ,
3. D8KI@:LC8K<;,
4. @E:FD<Z<C@>@9C<,
5. <EIFCC<;Z=LCC-K@D<Z(8ZD@E@DLDZF=Z12Z:I<;@KJ/:?8I><89C<
?FLIJZI<HL@I<;Z@EZK?<ZJKL;<EKSJZD8AFI)Z9PZK?<Z<E;ZF=
K?<ZC8JKZ;8PZKFZ8;;Z8Z:C8JJZ@EZ/<JJ@FEZ%.
6. 89C<ZKFZD<<KZD@E@DLDZJK8E;8I;JZF=ZJ8K@J=8:KFIP
8:8;<D@:JK8E;@E>,Z8:8;<D@:ZGIF>I<JJZ8E;ZGIF>I8D
GLIJL@KZ8JZ;<=@E<;Z9PZK?<Z*<NZ5FIBZ/K8K<Z!;L:8K@FE
<G8IKD<EKZ=FIZ'@E>J9FIFL>?ZCFDDLE@KPZCFCC<><
JKL;<EKJ.

7.ZZDLJKZ?8M<Z8Z1./.Z?@>?ZJ:?FFCZ;@GCFD8,Z8Z#.!. .,ZFI
G8JJZ8EZ8GGIFM<;Z89@C@KPZKFZ9<E<=@KZK<JK.

Satisfactory Academic Standing to Continue TAP Awards

0A,ZI<HL@I<JZK?<ZD8@EK<E8E:<ZF=Z8ZD@E@DLD,ZJ8K@J=8:KFIP,
8:8;<D@:ZJK8E;@E>.Z/KL;<EKJZN?FZ=8@CZKFZGLIJL<Z8ZGIF>I8D
F=ZJKL;PZFIZN?FZ=8@CZKFZD8B<ZJ8K@J=8:KFIP,Z8:8;<D@:
GIF>I<JJ,ZN@CCZCFJ<Z0A,Z<C@>@9@C@KPZ=FIZK?<Z=FCFN@E>ZJ<D<JK<I.

Pursuit of Program/Academic Progress

/KL;<EKJZ8I<ZI<HL@I<;ZKFZ:FDGC<K<Z8Z:<IK8@EZD@E@DLD
ELD9<IZF=Z:I<;@KJZFIZ:?8I><89C<Z?FLIJZ<8:?ZJ<D<JK<I,
8::LDLC8K<Z8ZJG<:@=@<; D@E@DLDZELD9<IZF=ZKFK8CZ:I<;@KJ
8E;Z8:?@<M<Z8ZJG<:@=@<;ZD@E@DLD :LDLC8K@M<Z>I8;<ZGF@EK
8M<I8><Z(#,A)ZKFZ9<Z<C@>@9C<Z=FIZ<8:?Z0A,ZG8PD<EK.
A;;@K@FE8CZ@E=FID8K@FE/<OGC8E8K@FEZ@JZ8M8@C89C<Z=<<EGC6(F)6(Z)-2?(A)6(;)6(,)6(Z)-22(G)6(8)6(><)]8@@I@ZFEZ@J+II@Z=<CZFZKFZD@.Z

Important Notes

A. /KL ; <EKJZN?FZN@K? ; I8NZ=IFDZ8CCZ : FLIJ<JZ ; LI@E>Z8 J<D<JK<IZN@CCZCFJ<Z<C@>@9@C@KPZ=FIZ0A , Z@EZK?<ZJL9J<HL<EK J<D<JK<I.

B. /KL ; <EKJZFEZGIF98K@FEZFIZ : FEK@EL< ; ZGIF98K@FEZN?F D8B<ZJ8K@J=8 : KFIPZ8 : 8 ; <D@ : ZGIF>I<JJZ ; LI@E>ZK?@J GIF98K@FE8IPZG<I@F ; Z8E ; Z : FEK@EL<ZKFZD8@EK8@EZK?<@I 8 : 8 ; <D@ : ZJK8E ; @E>ZN@CCZD8@EK8@EZK?<@IZ<C@>@9@C@KPZ=FIZ0A , .

C. AZI<G<8K< ; Z : I< ; @KZ : FLIJ<Z : 8EEFKZ9<Z@E : CL ; < ; Z8JZG8IK F=Z8ZJKL ; <EKSJZD@E@DLDZ=LCC-K@D<ZFIZG8IK-K@D<,Z : FLIJ< CF8 ; Z=FIZ * <NZ5FIBZ/K8K<Z=@E8E : @8CZ8@ ; ZGLIGFJ<J,Z<O : <GK @EZK?<Z=FCCFN@E>Z : 8J<J:Z(1)ZN?<EZK?<ZI<G<8K< ; Z : FLIJ<ZN8J GI<M@FLJCPZ=8@C< ; Z(2)ZN?<EZK?<Z : FLIJ<ZN8JZGI<M@FLJCP G8JJ< ; Z9LKZN@K?Z8Z>I8 ; <ZKFFZCFNZKFZ9<Z8 : : <GK< ; Z@EZK?< <EIFCC< ; Z : LII@ : LCLD,ZFIZ(3)ZN?<EZ8Z : FLIJ<ZD8PZ9< I<G<8K< ; Z8E ; Z : I< ; @KZ<8IE< ; Z<8 : ?ZK@D<.

. AZI<G<8K< ; ZEFE-:I< ; @KZ(; <M<CFGD<EK8CZFIZI<D< ; @8C) : FLIJ<Z : 8EEFKZ9<Z@E : CL ; < ; Z8JZG8IKZF=Z8ZJKL ; <EKSJ D@E@DLD =LCC-K@D<ZFIZG8IK-K@D<Z : FLIJ<ZCF8 ; Z=FIZ * <N 5FIBZ/K8K<Z=@E8E : @8CZ8@ ; ZGLIGFJ<J:Z(1)Z@=ZJKL ; <EKJZ?8M< 8CI<8 ; PZI< : <@M< ; ZKNFZG8PD<EKJZ=FIZK?8KZ : FLIJ<,ZFIZ(2) @=ZJKL ; <EKJZ?8M<ZGI<M@FLJCPZI< : <@M< ; ZG8JJ@E>Z>I8 ; <JZ=FI K?8KZ : FLIJ<.

!. (FJJZF=Z0A , Z<C@>@9@C@KP:Z/KL ; <EKJZN?FZ=8@CZKFZD<<KZK?< JK8E ; 8I ; J F=Z8 : 8 ; <D@ : ZGIF>I8DZGLIJL@K,Z8 : 8 ; <D@ : GIF>I<JJ,Z8E ; /FIZ8KK<E ; 8E : <ZN@CCZCFJ<ZK?<@IZ0A , <C@>@9@C@KP. %EZ8 ; ; @K@FE,Z8EPZJKL ; <EKZN?FZI<>@JK<IJZ=FI : FLIJ<J N@K?FLKZ?8M@E>ZD<KZK?<J<ZJK8E ; 8I ; JZN@CCZ9< C@89C<Z8E ; Z9@CC< ; Z=FIZK?<Z=LCCZ8DFLEKZF=ZK?<@IZ0A , 8N8I ; ,ZI<KIF8 : K@M<CP.

". 0I8EJ=<IZJKL ; <EKJZFIZJKL ; <EKJZD8B@E>Z8Z : ?8E><ZF= : LII@ : LCLDZJ?FLC ; ZI<M@<NZK?<@IZJK8KLJZN@K?Z8E 8 : 8 ; <D@ : Z8 ; M@J<IZ8E ; Z8Z=@E8E : @8CZ8@ ; Z : FLEJ<CFIZ@E FI ; <IZKFZ@EJLI<ZK?<@IZ : FEK@EL@E>Z0A , Z<C@>@9@C@KPZJK8KLJ 8KZ ' @E>J9FIFL>?ZCFDDLE@KPZCFCC<><.

#. 3 8@M<IZ , FC@ : P:ZZ/KL ; <EKJZN?FZ : 8EZ ; <DFEJKI8K<ZK?8K <0 : <GK@FE8CZ : @I : LDJK8E : <JZ9<PFE ; ZK?<@IZ : FEKIFCZ : 8LJ< ; K?<DZKFZ?8M<Z8ZJL9JK8E ; 8I ; Z8 : 8 ; <D@ : ZI< : FI ; ZD8PZ9< <C@>@9C<Z=FIZ8ZFE<-K@D<,ZLE ; <I>I8 ; L8K<ZN8@M<IZF=ZK?< 0A , ZI<>LC8K@FEJ.Z 3 8@M<IJZN@CCZ9<Z>I8EK< ; Z@EZK?<J< <0 : <GK@FE8CZ : 8J<JZFECPZN?<E:Z(1)ZK?<I<Z@JZ8ZI<8JFE89C< GIF989@C@KPZK?8KZK?<ZJKL ; <EKZN@CCZI<>8@EZ>FF ; Z8 : 8 ; <D@ : JK8E ; @E>;Z(2)ZK?<ZJKL ; <EKZ@JZ89C<ZKFZGI<J<EKZ=LCC ; F : LD<EK8K@FE;Z(3)ZK?<ZN8@M<IZ@JZI< : FDD<E ; < ; Z9PZK?< CFDD@KK<<ZFEZA : 8 ; <D@ : Z/K8E ; @E>Z8=K<IZK?<ZJKL ; <EK ?8JZD<KZN@K?Z8EZ8GGIFGI@8K<Z : FCC<><ZF==@ : @8C,Z8E ; ;Z(4) K?<ZN8@M<IZ@JZ8GGIFM< ; Z9PZK?<ZCFDD@KK<<ZFE A : 8 ; <D@ : Z/K8E ; @E>.Z/KL ; <EKJZN?FZN@J?ZKFZ8GGCPZ=FIZ8 0A , ZN8@M<IZDLJKZJL9D@KZ8ZNI@KK<EZ8GG<8CZKFZK?< .<>@JKI8ISJZ+==@ : <,ZIFFDZA-101.Z0?<I<Z8I<ZK?I<<ZKPG<J F=Z0A , ZN8@M<IJ:ZFE<ZK@D<;ZTCU;Z8E ; Z) < ; @ : 8C/$<8CK? (JKL ; <EK-?<8CK?-I<C8K< ;).

Aid for Part-Time Study (APTS)

0?<ZA@ ; Z=FIZ , 8IK-0@D<Z/KL ; PZ(A , 0/)ZGIF>I8DZ@JZJGFEJFI< ; 9PZK?<Z/K8K<ZF=Z * <NZ5FIBZ8E ; ZN8JZ<JK89C@J?< ; ZKFZGIFM@ ; < KL@K@FEZ8JJ@JK8E : <Z=FIZG8IK-K@D<,ZD8KI@ : LC8K< ; ZJKL ; <EKJ N?FZ8I<Z * <NZ5FIBZ/K8K<ZI<J@ ; <EKJ.Z ' @E>J9FIFL>?ZJKL ; <EKJ J?FLC ; ZLJ<ZK?<Z0.+.3 . 0?@JZ=FIDZ@JZD8@C< ; ZKFZ8CCZJKL ; <EKJ 8=K<IZ : FDGC<K@FEZF=ZK?<Z"A" / A.

#(&H & "('H " H # "H$&# & !'

Federal PELL Grants

) 8KI@:L℃8K<;ZJKL;<EKJZ8KK<E;@E>Z:F℃<><ZFEZ8KZ℃<8JKZ8Z℃<JJ-K?8E-?8℃=-K@D<Z98J@JZD8PZ8GG℃PZ=FIZK?@JZ"<;<I8℃Z>I8EK GIF>I8D.Z/KL;<EKJZJ?FL℃;ZLJ<ZK?<Z"I<<ZAGG℃@:8K@FEZ=FI "<;<I8℃Z/KL;<EKZA@;Z("A"/A)Z8M8@℃89℃<ZFE-℃@E<Z8K >>>.-(-:(.,+..6= (8GG℃@:8K@FEZ,%*Z@JZI<HL<JK<;Z8K >>>.705.,+..6=).Z0?<ZAN8I;ZP<8IZ8KZ'@E>J9FIFL>? CFDDLE@KPZCF℃℃<><Z:FEJ@JKJZF=ZKNFZJ<D<JK<IJ/K<IDJ, <8:?Z:FEJ@JK@E>ZF=ZKNFZJ<JJ@FEJ:Z0?<Z"8℃℃Z/<D<JK<I/0<ID @E:℃L;<JZ8Z12-N<<BZ"8℃℃ZJ<JJ@FEZ("8℃℃Z/<JJ@FEZ1)Z8E;Z8Z6-N<<BZ3@EK<IZDF;L℃<Z("8℃℃Z/<JJ@FEZ2);ZK?<Z/GI@E> /<D<JK<I/0<IDZ@E:℃L;<JZ8Z12-N<<BZ/GI@E>ZJ<JJ@FE (/GI@E>Z/<JJ@FEZ1)Z8E;Z8Z6-N<<BZ/LDD<IZDF;L℃< (/GI@E>Z/<JJ@FEZ2).ZZ%EZFI;<IZKFZI<:<@M<Z,!((Z=FIZK?< 3@EK<IZ("8℃℃Z/<JJ@FEZ2)ZFIZ/LDD<IZ(/GI@E>Z/<JJ@FEZ2) DF;L℃<J,ZPFLZDLJKZI<>@JK<IZ=FIZ9FK?ZJ<JJ@FEJZ("8℃℃/3@EK<I FIZ/GI@E>//LDD<I)Z9PZK?<ZA;;/ IFGZ;<8;℃@E<Z=FIZK?< I<JG<:K@M<Z/<JJ@FEZ1.Z

Eligibility for PELL

!℃@>@9℃@KPZM8I@<JZN@K?Z=@E8E:@8℃ZE<<;.Z0?<ZE<<;Z8E8℃PJ@J =FIDL℃8LJ<;Z@JZ;<M@J<;Z8E;ZD8E;8K<;Z9PZCFE>I<JJZ<8:? P<8I.Z/KL;<EKJZ8I<ZEFK@=@<;Z9PZK?<Z"@E8E:@8℃ZA@;Z+==@:< 89FLKZK?<Z:FE;@K@FEJZ=FIZI<:<@M@E>Z,!((ZG8PD<EKJZ8E; ?FNZ8E;ZN?<I<ZK?<J<ZG8PD<EKJ :8EZ9<ZI<:<@M<;.ZC?<:B K?<Z=@E8E:@8℃Z8@;ZGFIK@FEZF=ZK?<Z'@E>J9FIFL>?ZN<9J@K< (>>>.2)**.*<5@.,+<)Z=FIZ;<K8@℃J.ZAGG℃@:8K@FEZ@JZ8::FDG℃@J?<; 9PZ=@IJKZJ<℃<:K@E>Z8ZT,%*UZ8KZ>>>.705.,+..6=,Z8E;ZK?<E 9PZ8::<JJ@E>Z>>>.-(-:(.,+..6=.Z/KL;<EKJZJ<℃<:K<;Z=FI =@E8E:@8℃Z8@;ZM<I@=@:8K@FEZJ?FL℃;Z:?<:BZK?<Z'@E>J9FIFL>? N<9J@K<Z=FIZE<OKZJK<GJ.ZZA℃JFZ:?<:BZFE℃@E<Z=FIZK?<Z:?<:B ;@JKI@9LK@FEZJ:?<;L℃<.

0FZI<D8@EZ<℃@>@9℃<,ZJKL;<EKJZDLJKZ8KK<E;Z:℃8JJ<JZ8E; :FEK@EL< KFZD8B<ZJ8K@J=8:KFIP,Z8:8;<D@:ZGIF>I<JJZ@E K?<@IZ:?FJ<EZGIF>I8DZF=ZJKL;P.

";@2 /KL;<EKJZDLJKZ?8M<Z8:?@<M<;Z8KZ℃<8JKZ8Z2.00Z#,AZ8=K<I KNFZP<8IJZF=Z8KK<E;8E:<Z8KZ'@E>J9FIFL>?ZCFDDLE@KP CF℃℃<><.Z,!((ZN@℃℃ZG8PZ=FIZ8ZD8O@DLDZF=Z(30)Z<HL8K<; :I<;@KJ,<O:℃L;@E>Z!/(Z:FLIJ<J.

Federal Supplemental Educational Opportunity Grants (FSEOG)

"/!+#Z>I8EKJZ8I<Z8M8@℃89℃<ZKFZ<O:<GK@FE8℃℃P-E<<;PZ=L℃℃-K@D< 8E;ZG8IK-K@D<Z(8KZ℃<8JKZ?8℃=-K@D<)ZJKL;<EKJ.Z0?<J<Z>I8EKJ I8E><Z=IFDZ$200ZKFZ$2,000Z8EEL8℃℃P.Z/KL;<EKJZD8PZ8GG℃P =FIZ8ZT,%*UZ8KZ>>>.705.,+..6=,Z8E;ZK?<EZ8GG℃PZ=FIZK?@JZ8E; 8℃℃Z=<;<I8℃Z8@;ZGIF>I8DJ KF><K?<IZ8KZ>>>.-(-:(.,+..6= 8E; DLJKZD8@EK8@EZJ8K@J=8:KFIPZ8:8;<D@:ZGIF>I<JJZ8JZJK8K<; LE;<IZK?<Z,!((ZGIF>I8D.ZC?<:BJZ8I<Z;@JKI@9LK<;ZJ<M<I8℃ K@D<JZ<8:?ZJ<D<JK<I.Z0?<Z:?<:BZ;@JKI@9LK@FE J:?<;L℃<Z@J 8M8@℃89℃<ZFE℃@E<Z8KZ>>>.2)**.*<5@.,+<.

Federal Perkins Loan Program (FPL)

AGG℃@:8K@FEZ@JZD8;<ZK?IFL>?ZK?<Z"A"/A.ZAGG℃@:8EKJZD8P 9FIIFNZLGZKFZ$5,000Z;LI@E>ZK?<@IZ=@IJKZKNFZP<8IJZ8K '@E>J9FIFL>?ZCFDDLE@KPZCF℃℃<><,ZGIFM@;<;ZK?<PZI<D8@E @EZ>FF;ZJK8E;@E>.Z0?<Z8DFLEKZJKL;<EKJZD8PZI<:<@M<Z@J ;<K<ID@E<;Z9PZ=@E8E:@8℃ZE<<;Z8E;Z8M8@℃89@℃@KPZF=Z";<I8℃ =LE;J.Z(F8EJZ8I<ZGIFM@;<;Z@EK<I<JK-=I<< N?@℃<ZK?<ZJKL;<EK @JZHL8℃@=@<;Z8E„Z<EIF℃℃<;.Z1GK<BE8BZ<28(H;+<@65I)F(K2828(J8K@3=9G?<Z3)

$82.?2H:;@2

"/L::<JJ=LCCPZ:FDGC<K<;"Z@JZ;<=@E<;Z8JZ?8M@E>ZI<:<@M<;
>I8;<JZF=Z H H H H;>H $

#I8;<JZF=Z H + H +) H + " H;>H " :FLEKZ8J
8KK<DGK<;Z:I<;@KJ,Z?FN<M<IZK?<PZ;FZEFKZ:FLEKZ8JZ
JL::<JJ=LCCPZ:FDGC<K<;.Z

" %E:FDGC<K<JZ8I<Z:FLEK<;Z8JZ8KK<DGK<;Z:I<;@KJ.
AZJKL;<EKZ:8EZD8B<ZLGZK?<Z%*CZ>I8;<Z9PZK?<Z<E;ZF=ZK?<
=FCCFN@E>ZJ<D<JK<I.ZZ+ECPZK?<EZN@CCZ@KZ9<Z:FLEK<;ZKFN8I;J
#,AZ:8C:LC8K@FEZ8E;Z:FDGC<K<;Z:I<;@KJ.ZZ%=Z8ZJKL;<EKZ=8@CJ
KFZ:FDGC<K<ZK?<Z%*CZ:FLIJ<Z9PZK?<Z<E;ZF=ZK?<Z=FCCFN@E>
J<D<JK<I,ZK?<Z%*CZN@CCZ:?8E><ZKFZ8EZ"Z("%*C),ZN?@:?
8==<:KJZK?<Z#,A.

&2 9 216.8H ;A>?2? HAZJKL;<EKZN@CCZEFKZI<:<@M<Z=<;<I8C
JKL;<EKZ8@;Z=FIZ8EPZI<D<;@8CZ?FLIJZ89FM<Z30.Z.<D<;@8C
?FLIJZ8I<ZEFKZ:FLEK<;ZKFN8I;JZK?<Z#,A,Z8KK<DGK<;
:I<;@KJ,Z8JZN<CCZ8JZ:FDGC<K<;Z:I<;@KJ.Z

(>.:?32>H >216@?H

AEPZJKL;<EKZI<HL@I<;ZKFZI<>@JK<IZN@K?ZK?<Z) @C@K8IPZ/<C<:K@M<
/<IM@:<,ZN?FZ=8@CJZKFZ;FZJFZ@JZ@E<C@>@9C<Z=FIZ=@E8E:@8CZ8@;.
(A;;@K@FE8CZ@E=FID8K@FE @JZ8M8@C89C<Z8KZ>>>.:::..6=.)

ACCZCF8EZI<:@G@<EKJZN?FZ:FDGC<K<ZK?<@IZ;<>I<<ZI<HL@I<D<EKJ
8E;/FIZ8I<ZC<8M@E>ZK?<Z:FCC><>,ZDLJKZJ:?<;LC<Z8ZCF8EZ<0@K
@EK<IM@<NZN@K?ZK?<Z"@E8E:@8CZA@;Z+==@:<.

Federal Work-Study Program (FWS)

0?@JZGIF>I8DZ<E89C<JZHL8C@=@<;ZJKL;<EKJZKFZGLIJL<Z;<>I<<J
N?@C<Z?FC;@E>Z8ZG8IK-K@D<ZAF9.Z0?@JZ<DGCFPD<EKZD8PZ9<
CF:8K<;ZFEZFIZF==Z:8DGLJ,Z8E;ZD8PZK8B<ZGC8:<Z;LI@E>ZK?<
8:8;<D@:ZP<8IZ(@E:CL;@E>ZM8:8K@FEZG<I@F;J)Z8E;/FIZ;LI@E>ZK?<
JLDD<IZDFEK?J.Z!C@>@9@C@KPZ=FIZK?@JZGIF>I8DZ@JZ98J<;ZFEZK?<
=@E8E:@8CZJK8KLJZF=ZJKL;<EKJZ8E;/FIZK?<@IZ=8D@C@<J.Z.<:@G@<EKJ
8I<ZI<HL@I<;ZKFZD8@EK8@EZJ8K@J=8:KFIPZ8:8;<D@:ZGIF>I<JJZ8J
JK8K<;ZLE;<IZK?<Z,!((ZGIF>I8D.Z/KL;<EKJZD8PZ8GGCPZKF
K?@JZGIF>I8DZ=@IJKZ9PZ8GGCP@E>Z=FIZ8ZT,%*UZ8K
>>>.7C5.,+..6=,ZK?<EZ9PZJL9D@KK@E>Z8EZ<C<:KIFE@:Z8GGC@:8-
K@FEZK?IFL>?ZK?<Z"A"/A.ZC?<:BJZ8I<Z;@JKI@9LK<;Z<M<IPZKNF
N<<BJZ=FIZ?FLIJZNFIB<;.Z0?<Z:?<:BZ;@JKI@9LK@FE J:?<;LC<Z@J
8M8@C89C<ZFEC@E<Z8KZ>>>.2)**.*<5@.,+<.

Federal Direct Loans

/KL;<EKJZJ<<B@E>ZCF8EJZLE;<IZK?<Z @I<:KZ(F8EZ,IF>I8D
J?FLC;Z=@IJKZF9K8@EZ8ZT,%*UZ8KZ>>>.7C5.,+..6=,ZK?<EZJL9-
D@KZ8EZ<C<:KIFE@: 8GGC@:8K@FEZ8KZ>>>.-(-:(.,+..6=.
/KL;<EKJZN@CCZK?<EZI<:<@M<Z8Z/KL;<EKZA@;Z.<GFIKZ(/A.).
/KL;<EKJZJ?FLC;Z9I@E>ZK?<Z/A.Z8E;ZI<HL@I<;Z;F:LD<EK8K@FE
KFZK?<Z"@E8E:@8CZA@;Z+==@:<Z8E;ZI<HL<JKZ8ZCF8EZ8GGC@:8K@FE.
AZGI@EK89C<ZCF8EZ8GGC@:8K@FEZ8CFE>ZN@K?ZFK?<IZ@E=FID8K@FE
89FLKZ"<;<I8CZ @I<:KZ(F8EJZ@JZ8M8@C89C<ZFEZK?<
'@E>J9FIFL>?ZN<9J@K<,Z>>>.2)**.*<5@.,+<.

0?@JZGIF>I8DZGIFM@;<JZM8I@89C<,ZCFN-@EK<I<JKZCF8EJZKFK8C@E>
LGZKFZ$23,000ZKFZ:FM<IZLE;<I>I8;L8K<ZNFIB.Z!C@>@9C<
'@E>J9FIFL>?ZJKL;<EKJZN?FZ:8IIPZ8KZC<8JKZ6Z:I<;@KJZ8E;/FI
<HL8K<;Z:I<;@KJZD8PZ9FIIFNZLGZKFZ8ZKFK8CZF=Z$3,500Z=FI
K?<Z=I<J?D8EZP<8IZ8E;ZLGZKFZ8ZD8O@DLDZF=Z$4,500Z=FI
K?<ZJFG?FDFI<ZP<8I.Z0?<Z8DFLEKZF=ZK?<ZCF8EZN@CCZ9<
;<K<ID@E<;Z9PZJKL;<EKJSZ!0G<:K<;Z"8D@CPZCFEKI@9LK@FE
(!"C).Z.<G8PD<EKJZ9<>@EZJ@OZDFEK?JZ8=K<IZJKL;<EKJ
>I8;L8K<ZFIZC<8M<ZJ:?FFC.

0?<I<Z8I<ZKNFZKPG<JZF=Z"<;<I8CZ @I<:KZ(F8EJ:

1. /L9J@;@Q<;Z"<;<I8CZ @I<:KZ(F8E: 0?<Z@EK<I<JKZFEZK?@J
KPG<ZF=ZCF8EZ@JZG8@;Z9PZK?<Z"<;<I8CZ>FM<IED<EKZ;LI@E>
8ZJKL;<EKSJZI<J@;<E:<Z8KZ'@E>J9FIFL>?ZCFDDLE@KP
CFCC<><.Z0FZ9<Z<C@>@9C<Z=FIZK?<Z/L9J@;@Q<;Z"<;<I8C
@I<:KZ(F8E,Z8GGC@:8EKJZDLJKZ(8)Z9<Z<EIFCC<;Z=FIZ8KZC<8JK
?8C=-K@D<;Z(9)Z9<Z8Z1E@K<;Z/K8K<JZ:@K@Q<EZFIZG<ID8E<EK
I<J@;<EKZ8C@<E;Z(:)Z;<DFEJKI8K<ZJ8K@J=8:KFIPZ8:8;<D@:
GIF>I<JJ;Z(;)Z?8M<ZEFZFLKJK8E;@E>Z;<9KJZ=IFDZGI<M@FLJ

(52H 2<.>@92:@H;3H 6;8;460.8H'062:02?

B@FCF>@:8CZ/:@<E:<JZ <G8IKD<EKZAN8I;ZZZZZZZZZZZZ

,?PJ@:8CZ0?<I8G@JKZAJJ@JK8EKZ,IF>I8DZAN8I;

2<.>@92:@H;3H A?6:2??

A::FLEK@E>Z,IF>I8DZAN8I;ZZZZZZZZZZZZZZZZZZZZZZZZZZ

BLJ@E<JJZA;D@E@JKI8K@FEZ,IF>I8DZAN8I;Z

"8J?@FEZ <J@>EZAN8I;ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ

+==@:<ZA;D@E@JKI8K@FEZ8E;Z0<:?EFCF>PZAN8I;

.<K8@CZ)<I:?8E;@J@E>Z,IF>I8DZAN8I;

2<.>@92:@H;3H ;99A:60.@6;:?H.:1H$2>3;>96:4H >@?

BIF8;:8JK@E>ZAN8I;

CFDDLE@:8K@FEJZAN8I;

CFDDLE@:8K@FEJZ8E;Z,<I=FID@E>ZAIKJZAN8I;

)<;@8Z0<:?EFCF>PZ8E;Z)8E8><D<EKZAN8I;

,<I=FID@E>ZAIKJZAN8I;

/G<<:?ZCFDDLE@:8K@FEZAN8I;

0?<8K<IZAIKJZAN8I;Z

2<.>@92:@H;3H :486?5

!E>C@J?ZAN8I;ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ

&FLIE8C@JDZ8E;Z,I@EKZ)<;@8Z,IF>I8DZAN8I;

2<.>@92:@H;3H ;>264:H .:4A.42?

"FI<@>EZ(8E>L8><ZAN8I;

$<9I<N/5@;;@J?Z/:?FC8JK@:Z/KL;@<JZAN8I;

2<.>@92:@H;3H 2.8@5H$5E?60.8H 1A0.@6;:H.:1

&20>2.@6;:

CFDDLE@KPZ$<8CK?Z,IF>I8DZAN8I;

!O<I:@J<Z/:@<E:</,<IJFE8CZ0I8@E@E>Z,IF>I8DZAN8I;

$<8CK?,Z,?PJ@:8CZTJ T* [($<8CK?,Z)-2,?PJ@: T* [($<8CK?< (G:6 T* [($<8CK?< (>3Z)-2-28(Z)-28(Z)-28(Z)-28(Z)-

"FIZJKL ; <EKJZN?FZ8I<Z>I8 ; L8K@E>Z8E ; Z9<>@EE@E>ZKFZ8GGCPZKFZJ<E@FI
: FC<><J, : FEK8 : KZK?<ZF=@ : <ZF=ZC8I<<IZ <M<CFGD<EK,Z0I8EJ=<I,Z8E ;

(52H ??;O6.@2H6:H'O62:02H '

Assessment of Student Learning Outcomes

%EJKIL:KFIJZLJL8CCPZ;@JKI@9LK<Z8ZJPCC89LJZFEZK?<Z=@IJKZ;8PZF=:C8JJZK?8KZ@;<EK@=@<JZJKL;<EKZC<8IE@E>Z>F8CJZ8E;ZF9A<:K@M<J,8E;ZC@JKJZK?< I<HL@I<D<EKJZF=ZK?<Z:FLIJ<.Z$<ZFIZJ?<ZN@CC:?FFJ<Z8GGIF8:?<JZKFZK<8:?@E>ZK?8KZ8I<Z;<J@>E<;ZKFZ?<CGPFLZD<<KZK?<J<ZFLK:FD<J,Z8E;ZN@CCZ8JJ<JJZ?FNZN<CCZPFL?8M<Z8:?@<M<;ZK?<DZK?IFL>?Z<O8DJZ8E;/FIZ8JJ@>ED<EKJ,8JZ8GGIFGI@8K<ZKFZK?<Z:FLIJ<.Z

Graduation Requirements

!C@>@9@C@KPZ=FIZ>I8;L8K@FEZI<HL@I<JZK?<Z:FDGC<K@FEZF=ZFE<ZF=K?<ZGIF>I8DJZF=ZJKL;P,Z8JZFLKC@E<;ZN@K?@EZK?<Z,IF>I8DJ8E;ZCFLIJ<Z.<HL@I<D<EKJZJ<:K@FEZF=ZK?@JZ:8K8CF>,ZN@K?Z8EFM<I8CCZD@E@DLDZ:LDLC8K@M<Z>I8;<ZGF@EKZ8M<I8><ZF=Z2.00(8KZC<8JKZ8Z"C"Z8M<I8><)Z=FIZ8CCZ:FLIJ<JZK8B<EZ8K'@E>J9FIFL>?ZCFDDLE@KPZCFCC<><;ZG8JJ@E>ZJ:FI<JZFEZ8CCC1*5Z8JJ<JJD<EKZ<O8D@E8K@FEJ;Z8E;,Z<==<:K@M<Z"8CCZ2010,8ZG8JJ@E>Z>I8;<Z@EZ8ZNI@K@E>Z@EK<EJ@M<Z:FLIJ<.ZZ/FD<;<G8IKD<EKJZ8CJFZI<HL@I<Z8ZD@E@DLDZ>I8;<ZGF@EKZ8M<I8><=FIZJG<:@=@:Z:FLIJ<J;ZI<=<IZKFZK?<Z,IF>I8DJZ8E;ZCFLIJ<.<HL@I<D<EKJZJ<:K@FEZF=ZK?@JZ:8K8CF>Z=FIZ;<>I<<ZI<HL@I<-D<EKJ.

/KL;<EKJZ:8EZI<M@<NZK?<@IZGIF>I<JJZKFN8I;JZ>I8;L8K@FEFE-C@E<Z8EPK@D<Z9PZ:?<:B@E>Z <>I<< 3 FIBJ.ZZ!8:?ZF=ZK?<K?I<<Z=@C@E>ZG<I@F;J (=FIZ8EZAL>LJK,Z&8EL8IP,ZFIZ&LE<;<>I<<)Z?8JZ8Z;<8;C@E<.ZZ :H;>12>H@;H4>.1A.@2H.:1H/26??A21H.H16<8;9.H.88H?@A12:@?H9A?@H3682H.:H.<<860.@6;:3;>H4>.1A.@6;: /E H@52H12.186:2 46B2:H6:H@52 0.1296OH .82:1.>H1A>6:4H@52H0A>>2:@H3686:4H<2>6;1?;H@526>H>20;>1?HO.:H/2H>2B62C21 0?<ZJKL;<EKZDLJK9<ZD8KI@:LC8K<;Z;LI@E>ZK?<@IZC8JKZK<IDZF=Z8KK<E;8E:<Z8K'@E>J9FIFL>?ZCFDDLE@KPZCFCC<><.

%EZFI;<IZKFZI<:<@M<Z8Z'@E>J9FIFL>?Z;<>I<<,Z8ZJKL;<EKZ@JI<HL@I<;ZKFZ?8M<Z:FDGC<K<;ZK?<Z=@E8CZ30Z:I<;@KJZKFN8I;K?8KZ;<>I<<ZN?@C<Z<EIFCC<;Z8KZ'@E>J9FIFL>?.Z 3?<I<ZFEFIZDFI<Z:I<;@K-9<8I@E>Z:FLIJ<JZKFZ9<Z@E:CL;<;Z@EZK?@JZJLD8I<ZKFZ9<Z<8IE<;Z8KZ8EFK?<IZ@EJK@KLK@FE,ZGI@FIZG<ID@JJ@FEDLJKZ9<ZF9K8@E<;Z=IFDZK?<ZCFDD@KK<<ZFEZA:8;<D@:.<M@<N.ZZ!8:?ZI<HL<JKZ=FIZG<ID@JJ@FEZN@CCZ9<Z:FEJ@;<I<;:8J<-9P-:8J<ZFEZK?<ZD<I@KJZF=ZK?<Z@E;@M@;L8CZ:@I:LD-JK8E:<J.ZZ*FZG<ID@JJ@FEZN@CCZ9<Z>I8EK<;Z@=ZK?<ZKFK8CZF=K?<Z:FLIJ<Z:I<;@KJZI<JLCKZ@EZC<JJZK?8EZ30Z'@E>J9FIFL>?:I<;@KJZ:FDGC<K<;Z=FIZK?<Z;<>I<<.

AZ>I8;L8K<ZN?FJ<Z:LDLC8K@M<Z#,AZ@JZ9<KN<<EZ3.50Z8E;Z3.89J?8CCZ9<>I8;L8K<;ZN@K?Z?FEFIJ.ZZ0?<ZK<IDZTN@K?Z?FEFIJUN@CCZ9<Z@EJ:I@9<;ZFEZK?<ZJKL;<EKSJZ;@GCFD8Z8E;ZEFK<;Z@EZK?<:FDD<E:<D<EKZGIF>I8D.

/KL;<EKJZJ<<B@E>Z8ZN8@M<IZF=Z>I8;L8K@FEZI<HL@I<D<EKJZD8P8GG<8CZKFZ0?<ZCFDD@KK<<Z=FIZA:8;<D@:Z.<M@<NZ@EZIFFD)-386.

/KL;<EKJZI<KLIE@E>Z=FIZ8ZJ<:FE;Z;<>I<<ZN@K?@EZ8ZP<8IZF=>I8;L8K@FEZDLJKZ8GGCPZLJ@E>ZK?<ZC1*5Z8;@J@FE8GGC@:8K@FE. /KL;<EKJZI<KLIE@E>ZCFE><IZK?8EZ8ZP<8IZ8=K<I>I8;L8K@FEZDLJKZ8GGCPZK?IFL>?ZK?<ZA;D@JJ@FEJZ+==@:<.

! "(" " H# H ! H'(" & '

0?<Z>I8;<ZF=ZT%*CUZ(@E:FDGC<K<),ZFIZ@KJZ<HL@M8C<EK,ZJ?8CCZ9<8N8I;<;ZFECPZN?<EZK?<Z:FLIJ<ZI<HL@I<D<EKZ?8JZEFKZ9<<E:FDGC<K<;Z=FIZ>FF;Z8E;ZJL==@:@<EKZI<8JFEJZ8E;ZN?<I<K?<I<Z@JZI<8JFE89C<Z<OG<:K8K@FEZK?8KZK?<ZJKL;<EKZ:8EZ:FD-GC<K<ZK?<ZI<HL@I<D<EKJZF=ZK?<Z:FLIJ<.

0?<Z>I8;<ZF=ZT 3 UZ(N@K?;I8N8CZN@K?FLKZG<E8CKP)Z@JZ8GGC@<;ZN?<E

Grade Point Index

0?<Z#I8;<Z,F@EKZ%E;<OZ@JZF9K8@E<;Z9PZDLCK@GCP@E>ZK?<
>I8;<ZGF@EKZM8CL<Z9PZK?<ZELD9<IZF=Z:I<;@KJZ=FIZK?<
:FLIJ<,ZK?<EZKFK8C@E>ZK?<Z>I8;<ZGF@EKJZ8E;Z;@M@;@E>
9PZKFK8CZ:I<;@KJ. (#,,D7(.,D22D-69D.9(+,D76052;D=(3<,:.)
"FIZ<08DGC<:

;A>?2	>.12H	$;6:@H*.8A2H	>2106@?H	>.12H$;6:@?
!E>C@J?	A-	3.7Z	4Z	14.8
"I<E:?	Z	1	3Z	3
)LJ@:Z	C+Z	2.3Z	3Z	6.9
,?PJ@:J	B+Z	3.3Z	4	13.2
$@JKFIP	"	0	3Z	0

(#((#(& $#"((#(

#I8;<Z,F@EKZ%E;<OZ(37.9ZHL8C@KPZGF@EKJZ;@M@;<;Z9PZ17
:I<;@KJ) <HL8CJZ2.23,ZFIZ8GGIFO@D8K<CPZ8ZTC+UZ8M<I8><.

Developmental Courses

Kingsborough Community College
OFFICIAL GRADING SYSTEM

>.12

) (" H$# -

0FZ8L;@KZ8Z:FLIJ<Z8ZJKL;<EKZDLJK:

8. F9K8@EZG<ID@JJ@FEZ=IFDZK?<Z;<G8IKD<EKZ:?8@IG<IJFE 8E;Z:FLIJ<Z@EJKIL:KFI.

   (,<ID@JJ@FEZKFZI<D8@EZ@EZK?<Z:C8JJZ@JZFEZ8ZJG8:< 8M8@C89C<Z98J@J.)

9. =FID8CCPZI<>@JK<I,Z8JZ8EZ8L;@KFI,Z=FIZK?<Z:FLIJ<ZLE;<I K?<Z:LII<EKZKL@K@FEZGFC@:P.

0?<Z>I8;<ZF=ZTA1 ,UZN?@:?Z:8II@<JZEFZ:I<;@KZ8E;Z:8EEFKZ9< :?8E><;ZKFZ8EPZFK?<IZ>I8;<,ZN@CCZ9<Z>@M<EZ8KZK?<Z:FDGC<K@FE F=ZK?<ZK<ID.

+ (& +

From the College

/KL;<EKJZN?FZ=@E;Z@KZE<:<JJ8IPZKFZN@K?;I8NZ=IFDZK?< :FCC<><ZDLJKZ:FDGC<K<Z8E;Z=@C<Z8EZF==@:@8CZ=FIDZ@EZK?< .<>@JKI8ISJZ+==@:<,ZA-101

" # (0?<ZC8JKZ;8K<ZF=Z:C8JJZ8KK<E;8E:<Z@JZ:FEJ@;<I<;ZK?< F==@:@8CZ;8K<ZF=ZN@K?;I8N8CZ=IFDZK?<Z:FCC<><.Z/KL;<EKJ J?FLC;Z:?<:BZK?<ZA:8;<D@:ZC8C<E;8IZ=FIZ;<8;C@E<Z;8K<J KFZN@K?;I8NZN@K?FLKZ8:8;<D@:ZG<E8CKP.

Associate in Applied Science (A.A.S.) Degree

0?<Z'@E>J9FIFL>?ZA.A./.Z;<>I<<ZGIF>I8DJZN<I<ZJG<:@=@-:8CCPZ;<J@>E<;Z=FIZJKL;<EKJZN?FZN@J?ZKFZJK8IKZ8Z:8I<<I@DD<;@8K<CPZ8=K<IZ>I8;L8K@E>Z=IFDZ'@E>J9FIFL>?.ZAKC<8JKZ20Z:I<;@KJZF=ZC@9<I8CZ8IKJ 8E;ZJ:@<E:<Z:FLIJ<NFIB8I<ZI<HL@I<;Z=FIZK?<ZA.A./.Z;<>I<<ZN@K?ZK?<Z98C8E:<ZF=:I<;@KJZ@EZK?<ZD8AFIZ=@<C;ZF=ZJKL;P.ZAZJKL;<EKZDLJKZ<8IEZ8KC<8JKZ8ZTCUZ>I8;<Z(2.0)Z@E;<O,Z@EZ8;;@K@FEZKFZ:FDGC<K@E>8CCZ;<>I<<ZI<HL@I<D<EKJ.

$82.?2H:;@2H@52H3;88;C6:4

1GFEZKI8EJ=<IZKFZ8ZJ<E@FIZ:FCC<><ZC@9<I8CZ8IKJZ:LII@:LCLDZFII<C8K<;ZGIF=<JJ@FE8CZGIF>I8DZ@EZK?<ZJ8D<Z=@<C;Z8JZK?<A.A./.ZGIF>I8D,ZJKL;<EKJZ8I<Z>I8EK<;Z8ZD@E@DLDZF=Z60:I<;@KJZKFN8I;Z8Z98::8C8LI<8K<;<>I<<Z8E;Z=FCCFNZ8ZGI<-G8I<;Z:FLIJ<ZF=ZJKL;PZK?8KZN@CCZ<E89C<ZK?<DZKFZ:FDGC<K<K?<Z98::8C8LI<8K<Z;<>I<<ZN@K?@EZ60-72Z:I<;@KJ.ZC1*5ZJ<E-@FIZ:FCC<><JZ:8EZI<HL@I<ZK?8KZA.A./.Z;<>I<<ZJKL;<EKJ:FDGC<K<Z><E<I8CZ<;L:8K@FE,Z:FI<Z:LII@:LCLD FIZ;@JKI@-9LK@FEZI<HL@I<D<EKJZEFKZ:FM<I<;Z@EZK?<@IZA.A./.Z:I<;@KJ.

0?<ZC@9<I8CZ8IKJZ:FLIJ<NFIBZ:FDGC<K<;ZN@CCZ9<Z;<<D<;ZKF?8M<Z=LC=@CC<;Z;@J:@GC@E<-JG<:@=@:Z;@JKI@9LK@FEZI<HL@I<-D<EKJZ=FIZ8CCZ98::8C8LI<8K< GIF>I8DJZFEZ8Z;@J:@GC@E<-9P-;@J:@GC@E<ZJG<:@=@:Z98J@J.

B8J<;ZFEZ8Z=8@IZ8E;ZI<8JFE89C<Z<M8CL8K@FEZF=Z8ZJKL;<EKSJKI8EJ:I@GK,Z8KZC<8JKZ9Z:I<;@KJZN@CCZ9<Z>I8EK<;Z@EZK?<ZJKL;<EKSJD8AFIZ(@E:CL;@E>ZC89FI8KFIPZJ:@<E:<).Z/KL;<EKJZN?FZ:?8E><D8AFIJ LGFEZKI8EJ=<IZD8PZEFKZ?8M<Z:FDGC<K<;Z:FLIJ<-NFIBZK?8KZ:8EZ9<Z8GGC@<;ZKFN8I;Z8ZE<NZD8AFI.Z,IFM@J@FEJ=FIZ8ZJDFFK?ZKI8EJ=<IZ9<KN<<EZ'CCZ8E;ZC1*5,Z/1*58E;ZD8EPZGI@M8K<Z:FCC<><JZ8I<Z@EZ<==<:K.ZC?<:BZN@K?K?<Z0I8EJ=<IZ+==@:<,ZIFFDZC-102 =FIZDFI<Z@E=FID8K@FE.%E=FID8K@FEZ89FLKZC1*5ZKI8EJ=<IZGFC@:@<JZD8PZ8CJFZ9<F9K8@E<;Z8KZ>>>.;077:.*<5@.,+</;9(5:-,9763@*0,:./;43.

OFFICE OF ACADEMIC SCHEDULING, EVENING STUDIES AND WEEKEND COLLEGE

Academic Scheduling, Room A-113, Ext 5686

0?<Z+==@:<ZF=ZA:8;<D@:Z/:?<;L@E>Z@JZI<JGFEJ@9C<Z=FIZK?<GI<G8I8K@FE F=ZK?<Z/:?<;L@<ZF=ZCC8JJ<J,Z8CCF:8K@FEZF=ZKC 8:8;<D@:ZIFFD@E>Z8JJ@>ED<EKJ,Z8E;Z:I<8K@FEZF=ZK?<Z12ZN<<B J<D<JK<IZ<M<E@E>Z8E;Z6ZN<<BZDF;L@<Z;8PZ8E;Z<M<E@E> =@E8CZ<O8DZJ:?<;L@<. +K?<IZI<JGFEJ@9@C@K@<JZ@E:CL;<ZFM<I-J@>?KZ=FIZK?<Z</%)/Z$<CGZC<EK<I;Z!M<E@E>Z/KL;@<J;Z8E;ZK?< 3<<B<E;ZCFCC<><Z,IF>I8D,ZN?@:?Z@JZF==<I<;ZFECPZ;LI@E> K?<Z/GI@E>Z8E;Z"8CCZJ<D<JK<IJ.ZZ"FIZDFI<Z@E=FID8K@FE, J<<ZK?<ZA:8;<D@:JZJ<:K@FEZFEZK?<ZCLII<EKZ/KL;<EKJZG8>< FEZK?<Z'@E>J9FIFL>?ZN<9J@K<,Z>>>.2)**.*<5@.,+<, FI <D8@CZA:8;<D@:7/:?<;L@E>@B9::.:LEP.<;L.

Weekend College Program, Room A-113, Ext. 6638

0?<Z3<<B<E;ZCFCC<><Z,IF>I8DZJ<IM<JZ8EZ@EK<>I8CZIFC<Z@E K?<Z:FCC<><SJZ<;L:8K@FE8CZF==<I@E>J.ZZ%E;@M@;L8CJZN?FZ8I< LE89C<ZKFZ8KK<E;Z:FLIJ<JZ;LI@E>ZK?<Z;8PZD8PZGLIJL< G8IK-K@D< 8E;/FIZ=LCC-K@D<ZJKL;@<JZN<<B;8PZ8E;Z"I@;8P <M<E@E>J,Z8E;ZFEZ/8KLI;8PJZ8E;Z/LE;8PJ.ZZB<:8LJ<ZF==@:< ?FLIJZM8IPZK?IFL>?FLKZK?<ZJ<D<JK<I,JKL;<EKJZ8I<ZLI><;ZKF :8CCZFIZ<D8@CZLJZ=FIZF==@:<Z8M8@C89@C@KP.

0?<Z3<<B<E;ZCFCC<><Z,IF>I8DZJ<IM<JZ8CCZJKL;<EKJZ@E:CL;@E>:

VA;LCKJZJ<<B@E>Z<;L:8K@FEZ=FIZE<NZ:8I<<IZFIZ:8I<<I <E?8E:<D<EK

V,8I<EKJZGC8EE@E>ZKFZI<KLIEZKFZK?<ZNFIBZ=FI:<

V/<E@FIZC@K@Q<EJZ(*<NZ5FIBZ/K8K<ZI<J@;<EKJZ60ZP<8IJZF= 8><Z8E;ZFM<I),ZN?FZN@J?ZKFZ8M8@CZK?<DJ<CM<JZF= FGGFIKLE@K@<J @EZ?@>?<IZ<;L:8K@FEZLE;<IZK?<ZCFCC<><SJ KL@K@FEZN8@M<IZGFC@:PZ=FIZJ<E@FIZ:@K@Q<EJ.ZZ 3@K?ZGIFF=ZF= 8><Z8E;ZI<J@;<E:P,ZFECPZ8Z$70ZI<>@JKI8K@FEZ=<<Z@J :?8I><;Z<8:?ZJ<D<JK<I

V2<K<I8EJZ8E;Z8:K@M<ZD@C@K8IPZG<IJFEE<CZGLIJL@E>ZK?<@I <;L:8K@FEZF9A<:K@M<JZ9PZ8KK<E;@E>ZK?<ZCFCC<><

VAEPZG<IJFEZJ<<B@E>Z8ZEFE-KI8;@K@FE8CZ:FCC<><Z<0G<I@<E:<

"FIZDFI<Z@E=FID8K@FE,ZJ<<ZK?<ZA:8;<D@:JZJ<:K@FEZFEZK?< CLII<EKZ/KL;<EKJZG8><ZFEZK?<Z'@E>J9FIFL>?ZN<9J@K<, >>>.2)**.*<5@.,+<,ZFIZ<D8@C 3<<B<E;CFCC<><@B9::.:LEP.<;L.

Programs of Study

CFLIJ<JZ@EZC@9<I8CZ8IKJ,ZK?<Z?LD8E@K@<J,Z9LJ@E<JJ 8;D@E@JKI8K@FE,<8ICPZ:?@C;?FF;Z<;L:8K@FE,Z:FDGLK<I @E=FID8K@FEZJPJK<DJ,ZKI8M<CZ8E;Z?FJG@K8C@KP,Z8E;ZK?< J:@<E:<J 8I<Z8M8@C89C<Z@EZK?<Z<M<E@E>JZ8E;ZFEZN<<B<E;J. AKZGI<J<EK,Z<M<E@E>ZJKL;<EKJZ:8EZGLIJL<ZAJJF:@8K< <>I<<JZ@EZA::FLEK@E>,ZBLJ@E<JJ,ZCFDGLK<IZ%E=FID8K@FE /PJK<DJ,Z+==@:<ZA;D@E@JKI8K@FEZ8E;Z0<:?EFCF>P,Z8E; (@9<I8CZAIKJ.ZZAZ(@9<I8CZAIKJZ;<>I<<Z:8EZ9<Z<8IE<;ZJFC<CP K?IFL>?Z<M<E@E>Z8E;/FIZN<<B<E;ZJKL;P.ZZ/KL;<EKJ @EK<I<JK<; @EZFK?<IZ;<>I<<ZGIF>I8DJZN?@:?Z8I<ZF==<I<;Z@E K?<Z;8PZJ<JJ@FE,Z:8EZ9<>@EZK?<@IZJKL;@<JZ@EZK?<Z<M<E@E>Z8E; FEZK?<ZN<<B<E;J,Z8E;ZKI8EJ=<IZKFZK?<Z;8PZJ<JJ@FEZKF :FDGC<K< K?<@IZ;<>I<<.ZZ

"FIZ@E=FID8K@FEZI<>8I;@E>ZD8KI@:LC8K<;Z8E;Z;<>I<<ZJK8KLJ, :FEK8:K K?<ZA;D@JJ@FEZ%E=FID8K@FEZC<EK<IZ@EZIFFDZ2-103, <OK.Z4600ZFIZK?<Z+==@:<ZF=ZA:8;<D@:Z/:?<;L@E>Z@EZIFFD A-113,Z<OK.Z5686.ZZ

"FIZDFI<Z@E=FID8K@FE,ZM@J@KZK?<Z3<<B<E;ZCFCC<><ZJ<:K@FEZF= K?<Z'@E>J9FIFL>?ZN<9J@K<,Z>>>.2)**.*<5@.,+<.

DEPARTMENT OF STUDENT AFFAIRS

Room A-216, ext. 5563

0?<Z D@JJ@FEZF=ZK?<Z <G8IKD<EKZF=Z/KL ; <EKJZA==8@IJZ@JZKF
GIFM@ ; <Z8EZ@E:CLJ@M<Z<EM@IFED<EKZ@EZN?@:?ZJKL ; <EKJ
<E>8><Z@EZ@EEFM8K@M<,ZJK@DLC8K@E>,Z8E ; Z?@>?ZHL8C@KPZC<8IE@E>
FGGFIKLE@K@<JZ ; <J@>E< ; ZKFZ=8:@C@K8K<ZG<IJFE8CZ>IFNK?Z8E ;
8:8 ; <D@:ZJL: : <JJ.ZZ+LIZJKL ; <EKJZN@CCZ<O<DGC@=PZK?<Z:FI<
M8CL<JZF=ZC<8 ; <IJ?@G,Z:@M@:Z<E>8><D<EK,Z:@M@C@KP,Z8E ;
I<JGFEJ@9C<Z>CF98CZ:@K@Q<EJ?@GZN?@C<ZDFM@E>Z=FIN8I ;
JL: : <JJ=LCCP KFN8I ; ZK?<@IZ8:8 ; <D@:Z8E ; Z:8I<<IZ>F8CJ.

Career Development, Transfer/New Start, Scholarship Opportunities and Service-Learning, Room C-102, ext. 5115

0?<Z+==@:<ZF=ZC8I<<IZ <M<CFGD<EK,Z0I8EJ=<I/*<NZ/K8IK,
/:?FC8IJ?@GZ+GGFIKLE@K@<JZ&Z/<IM@:<-(<8IE@E>ZF==<IJZ:8I<<I
:FLEJ<C@E>ZKFZ8CCZ'@E>J9FIFL>?ZJKL ; <EKJ,Z=IFDZK?<@IZ=@IJKZ ; 8P
FEZ:8DGLJZK?IFL>?Z>I8 ; L8K@FE.Z0?<ZD@JJ@FEZF=ZK?<ZC<EK<I
@JZKFZGI<G8I<ZJKL ; <EKJZN@K?ZJG<:@=@:ZBEFNC< ; ><ZKFZ=@E ; ,
FI>8E@Q<,Z8E ; ZLK@C@Q<Z:8I<<IZI<JFLI:<JZ8JZK?<PZGIF>I<JJ
K?IFL>?ZM8I@FLJZJK8><JZF=Z:8I<<IZ<OGCFI8K@FE.ZC8I<<I
:FLEJ<CFIJZ8JJ@JKZJKL ; <EKJZ@EZ:8I<<IZGC8EE@E>Z8E ; Z@EZK?<
;<M<CFGD<EKZF=ZJB@CCJZE<< ; < ; Z@EZK?<ZAF9ZJ<8I:?.Z(@JK@E>JZF=
G8IK-Z8E ; Z=LCC-K@D<ZAF9J,Z8JZN<CCZ8JZ@EK<IEJ?@GJ,Z8I<Z8M8@C89C<
KFZJKL ; <EKJZM@8ZK?<Z'CCZ+EC@E<Z&F9JZBF8I ; .Z0?<ZC8I<<I
C<EK<I'JZI<:IL@KD<EKZ<M<EKJ,ZJL:?Z8JZ&F9Z"8@IJZ8E ; Z+E-C8DGLJ
.<:IL@KD<EK,Z9I@E>ZI<GI<J<EK8K@M<JZ=IFDZD8AFIZ:FIGFI8K@FEJ,
>FM<IED<EK,Z8E ; ZJF:@8CZJ<IM@:<Z8><E:@<J KFZK?<Z:8DGLJ.
&F9ZJ<8I:?Z8JJ@JK8E:<Z@JZF==<I< ; ZKFZ8CCZJKL ; <EKJ K?IFL>?
I<JLD<ZNI@K@E>Z8E ; Z@EK<IM@<NZK<:?E@HL<ZNFIBJ?FGJ.Z

%EZ8 ; ;@K@FE,Z@E=FID8K@FEZ@JZ8M8@C89C<ZFEZI<HL@I<D<EKJZ=FI
KI8EJ=<IZKFZJ<E@FIZC1*5,Z/1*5,Z8E ; ZGI@M8K<Z:FC<><J.
0I8EJ=<IZ:FLEJ<CFIJZGIFDIFI ; <Z8EKZGJZKFZ(F)11(I)11,<EKFZ(F)11(I)1I2 '=FI

%EZ@E@I<D<E1 3Z8M8@C89C<Z

Freshman Services and College Advisement

'CC'JZ"I<J?D8EZ/<IM@:<JZ8E;ZCFℂ<><ZA;M@J<D<EKZFM<I-J<<J GI<-<EIFℂD<EKZ8:K@M@K@<J;Z"I<J?D8EZ/<IM@:<J;Z+G<E@E>
FFIJZ(<8IE@E>ZCFDDLE@K@<J;ZK?<ZAℂ@<;Z$<8ℂK?ZC8I<<I C<EK<I;ZK?<ZA:8;<D@:ZA;M@J<D<EKZC<EK<I;ZC8DGLJZ"<JK;/ Z10Z:FLIJ<J;Z=I<J?D8EZJF:@8ℂJ;Z8E;ZNFIBJ?FGJ.ZZ0?<GIF>I8DZ@JZ8@D<;Z8KZ8JJ@JK@E> =I<J?D8EZJKL;<EKJZD8B<Z8:FD=FIK89ℂ<Z8E;ZJL::<JJ=LℂZKI8EJ@K@FEZKFZ'@E>J9FIFL>?CFDDLE@KPZCFℂ<><.

"I<J?D8EZ/<IM@:<JZ8E;ZCFℂ<><ZA;M@J<D<EKZ@JZ;<;@:8K<;ZKFJKL;<EKJ'ZG<IJFE8ℂ,ZJF:@8ℂZ8E;Z8:8;<D@:Z>IFNK?.ZZ0?IFL>?8;M@J<D<EK,ZK?<PZNFIBZ:ℂFJ<ℂPZN@K?ZJKL;<EKJZ@EZ;<M<ℂFG@E>8ZDLKL8ℂℂPZ8>I<<;ZLGFEZGℂ8EZK?8KZ8@;JZ@EZK?<Z@;<EK@KPZ8E;8:?@<M<D<EKZF=ZK?<@IZ<;L:8K@FE8ℂ,Z:8I<<IZ8E;ZC@=<Z>F8ℂJ.0?<PZ=FJK<IZ8EZ<EM@IFED<EK K?8KZ<E:FLI8><JZJKL;<EK>IFNK?,ZGIFDFK<JZJ<ℂ=-JL==@:@<E:PZ8E;Z8:8;<D@:I<JGFEJ@9@C@KP.Z

.<JG<:K@E>ZK?<ZI@>?KJZ8E;Z;@>E@KPZF=Z8ℂℂZJKL;<EKJ,ZK?<PJKI@M<ZKFZ;@JJL8;<ZGI<ᴬL;@:<;ZK<8:?ZJKL;<EKJZK?<ZE<<;ZKFJ?FNZI<JG<:KZ8E;Z:FEJ@;<I8K@FEZ=FIZFK?<IJ;Z8E;Z<E:FLI-8><ZK?<Z;<M<ℂFGD<EKZF=Z:ℂFJ<ZK@<JZ8E;ZJKIFE>ZI<ℂ8K@FE-J?@GJZ9<KN<<EZJKL;<EKJZ8E;ZK?<@IZJKL;<EKZG<<IJ,Z8JZN<ℂℂ8JZ9<KN<<EZJKL;<EKJZ8E;ZJK8==.Z

"I<J?D8EZ/<IM@:<JZ8E;ZCFℂ<><ZA;M@J<D<EKZ@JZℂF:8K<;Z@EK?<Z=FℂFN@E>ZIFFDJ:Z"-123Z("I<J?D<E-Z=@IJKZJ<D<JK<I);!-102 (+G<E@E>Z FFIJZ(<8IE@E>ZCFDDLE@K@<J);Z) -201 (A:8;<D@:ZA;M@J<D<EKZC<EK<I);Z8E;Z) -101Z(A;M@J<D<EKC<EK<IZ=FIZ$<8ℂK?ZC8I<<IJ).ZZA:8;<D@:Z8E;Z:8I<<IZ8;M@J<-D<EKZ@JZGIFM@;<;ZKFZ8ℂℂZJKL;<EKJZEFKZ@EZ8ZJG<:@8ℂZGIF>I8D.

#)&' H# &" '

SD 1000 Freshman Seminar 1 cr. 1 hr.
/KL;<EKZ <M<ℂFGD<EKZ(/ Z10)Z@JZ8ZFE<-:I<;@KZ=I<J?D8EJ<D@E8IZ:FLIJ<.Z0?<Z:FLIJ<Z8JJ@JKJZ@E:FD@E>ZJKL;<EKJ@EZK?<@IZ:Fℂ<><ZKI8EJ@K@FE,Z=8:@C@K8K<JZ@EK<I8:K@M<Zℂ<8IE@E>,

H.E.L.M. (Health Education & Lifestyle Management) Center, Room E-102, ext. 4909

0?<Z$.!.(.) .ZC<EK<IZJZ8Z?<8CK?Z<;L:8KFEZ8E;ZI<J<8I:?

A[[ZGL9[@:8K@FEJZ8I<ZNI@KK<E,ZGIF;L:<;,ZD8E8><;Z8E;Z;@J-KI@9LK<;Z9PZ'CCZJKL;<EKJZN@K?Z8Z=8:L[KPZ8;M@JFI.Z0?<PZ8I<JLGGFIK<;Z9PZK?<Z'CCZAJJF:@8K@FEZ8E;Z?8M<Z9<<EZ:@K<;=FIZ<0:<[[<E:<.

STUDENT SUPPORT PROGRAMS

Access-Ability Services (Students with Disabilities), Room D-205, ext. 5175

0?<Z>F8[ZF=ZA::<JJ-A9@[@KPZ/<IM@:<JZ(AA/)Z@JZKFZ<EJLI<ZK?8K'CCZJKL;<EKJZN@K?Z;@J89@[@K@<JZI<:<@M<Z<HL8[Z8::<JJZKFZ8[['CCZGIF>I8DJZ8E;ZJ<IM@:<J.ZAA/ZD8B<JZ<M<IPZI<8JFE89[<<==FIKZKFZGIFM@;<Z8GGIFGI@8K<Z8::FDDF;8K@FEJZ8E;Z8JJ@J-K8E:<ZKFZJKL;<EKJZN@K?Z;@J89@[@K@<JZ@E:[L;@E>ZKLKFI@E>,Z;@J-89@[@KP-I<[8K<;Z8::FDDF;8K@FEJ,Z@E;@M@;L8[Z:FLEJ<[@E>,8;8GK@M<Z:FDGLK<IZ<HL@GD<EK,Z8E;ZFK?<IZK<:?EF[F>@:8[8@;J.ZZAA/Z8[JFZJ<IM<JZ8JZ8Z[@8@JFEZ8E;ZI<JFLI:<Z=FIZ'CCJKL;<EKJ,Z=8:L[KPZ8E;ZJK8==ZI<>8I;@E>Z;@J89@[@KPZ@JJL<J.Z%E8;;@K@FE,ZK?<PZ?<[GZJKL;<EKJZN@K?Z;@J89@[@K@<JZ;<M<[FGZK?<E<:<JJ8IPZJB@[[JZKFZ9<:FD<Z<==<:K@M<ZJ<[=-8;MF:8K<JZ8E;GIF;L:K@M<,Z:FEKI@9LK@E>ZD<D9<IJZF=ZK?<ZJKL;<EKZ9F;P./KL;<EKJZN@K?Z;@J89@[@K@<JZN?FZI<HL@I<Z8::FDDF;8K@FEJJ?FL[;Z:FEK8:KZAA/ZKFZJL9D@KZI<HL@I<;Z;F:LD<EK8K@FE8E;ZKFZ8II8E><Z8EZ@EK8B<Z@EK<IM@<N.

Child Development Center, Room V-105, ext. 5868

AZ[@D@K<;ZELD9<IZF=Z'@E>J9FIFL>?SJZJKL;<EKJSJZ:?@[;I<E,8><JZ18ZDFEK?JZK?IFL>?Z9ZP<8IJ,Z8I<Z8::<GK<;ZKFZK?<C?@[;Z<M<[FGD<EKZC<EK<IZ<8:?ZJ<D<JK<IZFEZ8Z=@IJK-:FD<,=@IJK-J<IM<;Z98J@J.Z0?<Z:?@[;I<EZI<:<@M<ZGIF=<JJ@FE8[Z:8I<8E;Z<;L:8K@FEZ8KZK?@JZ[@:<EJ<;Z=8:@[@KPZ=IFDZ/<GK<D9<IK?IFL>?Z&L[PZ<8:?ZP<8I.Z0?<Z:<EK<IZGIFM@;<JZ;8PZ8E;<M<E@E>Z:8I<,Z8E;Z?8JZ8Z/8KLI;8PZGIF>I8DZ;LI@E>ZK?<Z=8[8E;ZJGI@E>ZJ<D<JK<IJ.ZZ0?<Z[FNZG8I<EKZ=<<JZ=FIZ<EIF[[@E>:?@[;I<E8I<Z8ZI<JL[KZ1 g/T11 1 T5(Z) - 22(J) JGM>+ZN@K? - 28(N@

Men's Resource Center, Room U-218, ext. 5864

0?<) <ESJZ . <JFLI : <ZC<EK<IZGIFM@ ; <JZ8 : 8 ; <D@ : Z8E ; ZG<<I JLGGFIKZKFZJ<C=-@ ; <EK@=@< ; ZD<EZF=Z : FCFI,ZKFZ?<CGZ<DGFN<I K?<DZ8E ; Z@DGIFM<ZK?<@IZ : FCC<><Z<0G<I@<E : <.ZZ /<IM@ : <J GIFM@ ; < ; ZKFZ?<CGZJKL ; <EKJZ8 : ?@<M<ZK?<@IZ>F8CJZ@E : CL ; < GIF=<JJ@FE8CZ8E ; ZG<<IZD<EKFI@E>;ZZ@EK<EJ@M<Z8 : 8 ; <D@ : JLGGFIK;ZE<KNFIB@E>ZN@K?ZFK?<IZJKL ; <EKJ;Z : 8I<<IZ<OGCF-I8K@FE;Z8E ; Z : LCKLI8CZ&Z< ; L : 8K@FE8CCP-=F : LJ< ; ZKI@GJZ8E ; 8 : K@M@K@<J.

TRiO Student Support Services, Room D-205, ext. 5175

0 . @ +Z8 ; ; I<JJ<JZK?<Z8 : 8 ; <D@ : Z8E ; ZMF : 8K@FE8CZE<< ; JZF=ZJKL- ; <EKJZN@K?Z ; @J89@C@K@<J,Z=@IJKZ><E<I8K@FE,ZFIZCFNZ@E : FD<ZJKL- ; <EKJ.ZZ0?<ZGIF>I8DZGIFM@ ; <JZ : FLEJ<C@E>,Z8JJ@JK8E : <ZN@K? KI8EJ=<IJ,ZKLKFI@8CJ,ZK< : ?EFCF>PZNFIBJ?FGJ,Z8E ; ZFK?<IZJ<IM- @ : <JZ=FIZ8 : 8 ; <D@ : ZJL : : <JJZ8E ; ZI<K<EK@FE.ZZ%EK8B<JZ8I<Z8M8@C- 89C<ZK?IFL>?FLKZK?<Z : 8C<E ; 8IZP<8I.

Veterans Affairs Student Office, Room D-205, ext. 5472

ACCZM<K<I8EJ,ZD@C@K8IPZJKL ; <EKJ,Z8E ; Z<C@>@9C<Z ; <G<E ; <EKJ J?FLC ; ZM@J@KZK?<Z2<K<I8EJZA==8@IJZ/KL ; <EKZ+==@ : <Z(2.A./.+.) =FIZ@E=FID8K@FEZ8E ; Z8JJ@JK8E : <ZI<C8K@E>ZKFZ< ; L : 8K@FE8C 9<E<=@KJ,ZAF9J,Z?FLJ@E>,Z@EJLI8E : <,ZG<IJFE8CZ8E ; Z9LJ@E<JJ CF8EJ,Z ; <EK8CZ8E ; ZD< ; @ : 8CZI<=<II8CJ,ZMF : 8K@FE8CZI<?89@C@K8K@FE, 8E ; ZFK?<IZ<EK@KC<D<EKJ.ZAZ : FGPZF=Z"< ; <I8CZB<E<=@KJZ=FI 2<K<I8EJZ8E ; Z <G<E ; <EKJZ@JZ8CJFZ8M8@C89C<.

Women's Center, Room M-382, ext. 4700

0?<Z 3 FD<ESJZC<EK<IZF==<IJZNFD<EZ8E ; ZEFE-KI8 ; @K@FE8C JKL ; <EKJZ8ZJLGGFIK@M<ZGC8 : <ZKFZ>8K?<I,ZJF : @8C@Q<,Z8E ; ZE<K- NFIB.ZZ0?<Z : <EK<IZG8IKE<IJZN@K?Z8 : 8 ; <D@ : Z ; <G8IKD<EKJ, GIF>I8DJ,Z8E ; Z : CL9JZKFZ : F-JGFEJFIZC<:KLI<J,ZNFIBJ?FGJ, 8E ; ZJ<D@E8IJZ<OGCFI@E>Z< ; L : 8K@FE8C,ZGIF=<JJ@FE8C,Z8E ; C@=<JKPC<Z@JJL<J.ZZ%EZ8 ; ; @K@FE,ZK?<PZ=FIDZG<<IZJLGGFIKZ>IFLGJ @EZI<JGFEJ<ZKFZJKL ; <EKJSZE<< ; JZ8E ; ZJ : ?< ; LC<J.

SPECIAL PROGRAMS

Behavioral Sciences Research Methodology Project, Room F-102, ext. 5170

0?@JZGIF>I8DZF==<IJZ?@>?ZJ : ?FFCJZJKL ; <EKJZ<EIFCC< ; Z@EZK?< CFCC<><Z*FNZGIF>I8DZK?<ZFGGFIKLE@KPZKFZC<8IEZ89FLK I<J<8I : ?ZD<K?F ; FCF>PZ9PZK8B@E>ZKNFZ4-:I< ; @KZ : FCC<>< :FLIJ<J:ZI5;96+<*;065D;6D", : , (9*/ (B!$Z7000) ; LI@E>ZK?<@I LGG<IZALE@FIZP<8IZ8E ; ZC65+<*;05.D", : , (9*/ (B!$Z7100) ; LI@E>ZK?<Z=8CCZK<IDZF=ZK?<@IZJ<E@FIZP<8I.

0?<Z : FLIJ<JZ8I<ZK8L>?KZ9PZ '@E>J9FIFL>?Z=8 : LCKPZ8E ; LK@C@Q< K?<ZC8K<JKZ@EZ : FDGLK<IZI<J<8I : ?ZK< : ?EFCF>P.Z0?< >F8CZF=ZK?<ZGIF>I8DZ@JZKFZ ; <M<CFGZG8IK@ : @G8EKJSZJB@CCJZ@E I<J<8I : ?,Z8E8CPK@ : 8CZK?@EB@E>Z8E ; Z : I@K@ : 8CZI<8JFE@E>.Z0?<@I @E ; @M@ ; L8CZGIFA<:KJZN@CCZ9<ZJL9D@KK< ; ZKFZK?<Z%EK<CZ/ : @<E : < 08C<EKZ/<8I : ?Z@EZK?<ZB<?8M@FI8CZ8E ; Z/F : @8CZ/ : @<E : <J : 8K<>FIPZ8E ; ZFK?<IZJ : ?FC8IJ?@GZ : FDG<K@K@FEJ.

Center for Civic Engagement

CUNY Baccalaureate for Unique and Interdisciplinary Studies, Room M-386, ext. 5029

0?<ZC@KPZ1E@M<IJ@KPZF=Z*<NZ5FIBZB8::8C8LI<8K<Z=FIZ1E@HL<8E;Z%EK<I;@J:@G C@E8IPZ/KL;@<JZ(=FID<ICPZK?<ZC1*5B8::8C8LI<8K<Z,IF>I8D)Z8CCFNJZ8:8;<D@:8CCPZ89C<ZJKL;<EKJK?<ZFGGFIKLE@KPZKFZ;<J@>EZ@E;@M@;L8C@Q<;ZGIF>I8DJZF=JKL;PZK?8KZ:FDGC<D<EKZK?<@IZ8:8;<D@:,ZGIF=<JJ@FE8C,Z8E;G<IJFE8CZ>F8CJ.Z0?<ZGIF>I8DZ@JZN<CC-JL@K<;Z=FIZJKL;<EKJN?FZN@J?ZKFZGLIJL<Z8I<8JZEFKZ8M8@C89C<Z8JZD8AFIJZ8KZ<@K?<IK?<@IZ?FD<Z:FCC<><JZFIZ<CJ<N?<I<ZN@K?@EZK?<ZLE@M<IJ@KP.0?@JZ@JZC1*5$JZDFJKZ=C<O@9C<,ZM<IJ8K@C<Z;<>I<<,ZD8B@E>Z@KG8IK@:LC8ICPZ9<E<=@:@8CZ=FIZNFIB@E>Z8;LCKJ;ZK?<ZGIF>I8D8CJFZF==<IJZ8Z:FDGI<?<EJ@M<ZKI8EJ=<IZGFC@:P.

3FIB@E>ZFE<-FE-FE<ZN@K?ZC1*5Z=8:LCKPZD<EKFIJ,ZJKL;<EKJ:I<8K<ZK?<@IZFNEZJ@E>C<ZFIZ;FL9C<ZT8I<8JZF=Z:FE:<EKI8K@FEU(C@B<ZZJ@E>C<ZFIZ;FL9C<ZD8AFIJ),ZD8EPZF=ZN?@:?Z8I<ZF=K<E@EK<I;@J:@G C@E8IP.ZZ.<:<EKZ<08DGC<JZ@E:CL;<Z!E>@E<<I@E>,JP:?FCF>P,Z)8IB<K@E>ZAEK?IFGFCF>P,Z1I98EZ/LJK8@E89@C@KP,%EK<IE8K@FE8CZ$LD8EZ.@>?KJ,Z!EM@IFED<EK8CZB@FCF>P,CFDDLE@KPZ <M<CFGD<EKZ8E;Z0<:?EFCF>P,Z8E;Z''FF;Z/KL;@<J8E;Z!EKI<GI<E<LIJ?@G.Z/KL;<EKJZD8PZK8B<Z:FLIJ<JZ8KZ8EPZC1*5:FCC><,Z@E:CL;@E>ZK?<Z#I8;L8K<ZC<EK<I,Z/:?FFCZF=Z,IF=<JJ@FE8C/KL;@<J,Z8E;ZC@KPZCFCC><><ZC<EK<IZ=FIZ3FIB<IZ!;L:8K@FE,8E;Z8I<Z<E:FLI8><;ZKFZGLIJL<Z@E;<G<E;<EK I<J<8I:?,Z=@<C;-NFIB,ZJKL;PZ89IF8;,Z8E;ZFK?<IZ8:8;<D@:ZFGGFIKLE@K@<J.

C1*5ZBA,Z8JZ@KZ@JZ:FDDFECPZBEFNE,Z8::<GKJZLGZKFZ68KI8EJ=<I :I<;@KJZ<8IE<;Z8KZK?<Z:FDDLE@KPZ:FCC><><ZC<M<C,Z8E;LGZKFZ90Z:I<;@KJZ@EZKFK8C.ZZ-L8C@=@<;Z'@E>J9FIFL>?ZJKL;<EKJ:8EZ9<Z@EZK?<ZGIF>I8DZN?@C<ZNFIB@E>ZKFN8I;JZK?<@IZ8JJF-:@8K<SJZ;<>I<<Z(8E;ZN@<EKLD28(NFIB@28(6@7(L)17KB<ECPZ) - 28LI)7JDIZ8LJDD28(N@D<).7(D28(7(D28(0F17(E)17(K);@7<C@>@L)1)

On Stage At Kingsborough at The Leon M. Goldstein Performing Arts Center, ext. 5596

,8IKZF=Z'@E>J9FIFL>?'JZD@JJ@FEZ@JZKFZ<EI@:?ZK?<Z©@M<JZF=
G<FG©<ZN?FZ©@M<,ZNFIB,Z8E;ZJKL;PZ@EZFLIZ:FDDLE@KP.ZZ0?<
J<8JFEZ@E:©L;<JZNFI©;-:©8JJZ;8E:<,ZDLJ@:,ZK?<8KI<,Z8E;
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#F©;JK<@E ,<I=FID@E>ZAIKJZC<EK<IZ9<KN<<EZ108DZ8E;
5GD.Z)FE;8PZK?IFL>?Z"I@;8P.Z"FIZDFI<Z@E=FID8K@FEZM@J@K
>>>. 5#;(.,A;K©5.:)6@6<./.6@..

Partners in Academic Success and Support (PASS)

0?<ZD@JJ@FEZF=ZK?<Z,8JJZ,IF>I8DZ@JZKFZ<EI@:?ZK?<
<;L:8K@FE8© <OG<I@<E:<ZF=Z(@9<IKPZ,8IKE<IJ?@GZ,IF>I8D
JKL;<EKJZ9PZ©@EB@E>ZK?<DZN@K?Z8Z'@E>J9FIFL>?ZCFDDLE@KP
CF©©><>ZJKL;<EK.ZB@;ED0NFF©©L<3@KCF(0A6 3 2PE 3 <K<EZ8M8@©89©<ZFEFEL<3@T21(L:-55(F)(E)@-55(F)(E)E3 2PE 3 <K<EZK-55(

33686.@21H .0A8@E

A;<@E<ZAG<E8 ..... $@JKFIP
/LJ8EZAI8EF==Z ..... BLJ@E<JJ
C8I@8ZB<<9<IZ ..... B@F@F>@:8@Z/:@<E:<J
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(FLI;<JZ"F@@EJ ..... B<?8M@FI8@Z/:@<E:<J
(@99PZ#8I@8E; ..... $@JKFIP
'8K<Z#8II<KJFEZ ..... !E>@J?
C@E;PZ#I<<E9<I>Z ..... CFDDLE@:8K@FEJZ&Z,<I=FID@E>ZAIKJ
ADPZ$88JZ ..... BLJ@E<JJ
$<@8@E<Z$8II@JZ ..... B<?8M@FI8@Z/:@<E:<J
AEE8Z'8IG8K?8B@JZ ..... B<?8M@FI8@Z/:@<E:<J
B<K?Z'@E> ..... B<?8MFI@8@Z/:@<E:<J
)@I@8DZ'@KKI<@@Z ..... B@F@F>@:8@Z/:@<E:<J
"I8E:<JZ'I8@A@: ..... $@JKFIP
/LQ8EE<Z(8"FEKZ ..... B<?8M@FI8@Z/:@<E:<J
&8E@:<Z)<?@D8EZ ..... AIK
'8K?<I@E<Z+G<@@F ..... $@JKFIP
)8IPZ+IK@QZ ..... B@F@F>@:8@Z/:@<E:<J
(@J8Z,8@<I ..... B<?8M@FI8@Z/:@<E:<J
$FG<Z,8I@J@Z ..... !E>@J?
C8K8I@E8Z,@<II< ..... AIK
AEE8Z,IF:PBZ ..... $@JKFIP
C<:@@8Z/8@9<IZ ..... (@9I8IP
&8:HL<@E<Z/:<I9@EJB@Z ..... BLJ@E<JJ
)@:?8<@Z/FBF@FNZ ..... $@JKFIP
0I8:PZ/K<==P ..... $@JKFIP
(FI<KK8Z08I8JZ ..... B@F@F>@:8@Z/:@<E:<J
!@Q89<K?Z0FDGB@EJ ..... (@9I8IP
&L@<Z0FII8EK ..... !E>@J?
#I8:<Z0IFKD8E ..... $@JKFIP
B8I98I8Z38@K<IJZ ..... B<?8M@FI8@Z/:@<E:<J
/?<I@Z3<@EJK<@EZ ..... !E>@J?
)8IM@EZ3@@@8DJ ..... CFDDLE@:8K@FEJZ&Z,<I=FID@E>ZAIKJ
!9<EZ3FF; ..... !E>@J?
#FI;FEZ5FLE> ..... CFDDLE@:8K@FEJZ&Z,<I=FID@E>ZAIKJ
5HGZ38J?9LIE ..... !E>@J?
&L8EEZ38KJFE ..... B<?8M@FI8@Z/:@<E:<JZ
08I8Z3<@JJZ ..... !E>@J?
&L;@K?Z3@@;<Z ..... AIK

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'CCZCFCC<><Z*FNZJKL;<EKJZN?FZ?8M<ZI<:<@M<;Z8ZB+ZFI 9<KK<IZ@EZ<M<IPZCFCC<><Z*FNZ:FLIJ<ZK?<PZ?8M<ZK8B<E 8E;Z?8M<ZD8@EK8@E<;Z8Z?@>?ZJ:?FFCZ8M<I8><ZF=Z78ZFI ?@>?<IZFIZ?8M<Z8GGIFGI@8K<Z/A0ZJ:FI<JZ8I<Z<C@>@9C<ZKF G8IK@:@G8K<Z@EZK?<Z$FEFIJZ,IF>I8DZLGFEZK?<ZI<:FDD<E-;8K@FEZF=ZK?<Z;@I<:KFIZF=ZK?<ZCFCC<><Z*FNZ,IF>I8DZ8K '@E>J9FIFL>?.

AEPZJKL;<EKZEFKZ=LCCPZD<<K@E>ZK?<ZJ<KZ:I@K<I@8Z:8EZG<K@K@FE K?<Z$FEFIJZ,IF>I8DZ @I<:KFIZKFZ<EK<IZK?<Z$FEFIJ ,IF>I8D.Z

0?<Z$FEFIJZ$FLJ<Z@EZIFFDZ)-377ZJ<IM<JZ8JZ8ZFE<-JKFG-J?FGZ=FIZ8CCZ$FEFIJZE<<;JZ8E;ZJ<IM@:<J.ZZNEK<I<JK<;ZJKL-;<EKJZJ?FLC;ZM@J@KZK?<Z$FEFIJZ$FLJ<ZKFZC<8IEZDFI<Z89FLK K?<Z$FEFIJZ,IF>I8DZ8E;ZK?<ZKI<D<E;FLJZ<OKI8-Z8E;Z:F-:LII@:LC8IZFGGFIKLE@K@<JZ8M8@C89C<ZFE-Z8E;ZF==-:8DGLJZKF $FEFIJZJKL;<EKJ.ZZ

D0:;05*;0650::DA5DH6569:D#;<+,5;DJ6<95(3,Z=FLE;<;Z@E 2005,Z@JZK?<Z9@-8EEL8CZGL9C@:8K@FEZF=ZK?<Z'@E>J9FIFL>? $FEFIJZ,IF>I8D.Z$FEFIZJKL;<EKJZ8I<ZLI><;Z8E;Z8JJ@JK<; KFZGL9C@J?ZK?<@IZG8G<IJZ@EZD0:;05*;0650:.

DEAN'S LIST
Room M-386, ext. 5029,
www.kbcc.cuny.edu/DeansList

0?<Z <8ESJZ(@JKZ8KZ'@E>J9FIFL>?ZCFDDLE@KPZCFCC<><Z@J <JK89C@J?<;Z<M<IPZJ<D<JK<IZKFZ?FEFIZD8KI@:LC8K<;ZJKL;<EKJ N?FZ?8M<Z8:?@<M<;Z8:8;<D@:Z<0:<CC<E:<.ZZ0FZ9<Z<C@>@9C< =FIZ@E:CLJ@FEZFEZK?<Z <8ESJZ(@JKZ@EZ8Z>@M<EZJ<D<JK<I (;<=@E<;Z8JZJ<JJ@FEJZ1Z8E;Z2Z:FD9@E<;),Z;8PZFIZ<M<E@E> JKL;<EKJZDLJKZD<<KZK?<Z=FCFN@E>Z:I@K<I@8:

- VZ<8IEZ12Z:I<;@KJZFIZDFI<Z(EFKZ@E:CL;@E>ZI<D<;@8C :FLIJ<J);
- VZ8:?@<M<Z8Z>I8;<ZGF@EKZ8M<I8><Z(#,A)ZF=Z3.50ZFIZ?@>?-<IZ=FIZK?<ZJ<D<JK<I;
- VZEFKZ?8M<Z>I8;<JZF=Z ,Z",Z"%*,Z(1EI<JFCM<;)Z%*C,Z.ZFI 3 1Z8KZK?<ZK@D<ZK?<ZC@JKZ@JZGIF;L:<;;Z8E;
- VZ9<Z@EZ>FF;Z8:8;<D@:ZJK8E;@E>

AKK8@ED<EKZF=ZK?<Z <8ESJZ(@JKZ9<:FD<JZG8IKZF=ZJKL-;<EKJSZG<ID8E<EK I<:FI;Z8E;Z8GG<8IJZFEZK?<@IZKI8E-J:I@GK.ZZ/KL;<EKJZ;FZEFKZE<<;ZKF 8GGCPZKFZ9<Z:FEJ@;<I<;=FIZK?<Z <8ESJZ(@JK.ZZ%=Z<C@>@9C<,ZK?<PZ8I<Z8LKFD8K@:8CCP GC8:<;ZFEZK?<ZC@JK.

"F'H '(H' # &' $

0?<Z <8ESJZ(@JKZ/:?FC8IJ?@GZAN8I;Z@JZ8M8@C89C<ZKFZ8 J<C<:KZELD9<I F=Z <8ESJZ(@JKZJKL;<EKJZ8JZ8ZN8PZKFZ=LIK?<I ?FEFIZK?<@IZ8:?@<M<D<EKZ8E;Z<E:FLI8><ZK?<DZKFZ:FE-K@EL<ZKFZGLIJL<Z8:8;<D@: <0:<CC<E:<.ZZ/KL;<EKJZN?F <EK<IZ'@E>J9FIFL>?Z8JZ=I<J?D<E,ZGC8:<ZFEZK?<Z <8ESJZ(@JK K?<@IZ=@IJKZKNFZJ<D<JK<IJ,Z8E;Z8KK<E;Z'@E>J9FIFL>?Z=LCC-K@D<Z=FIZ8ZK?@I;ZJ<D<JK<IZD8PZHL8C@=PZ=FIZK?<Z8N8I;.

(0I8EJ=<IZJKL;<EKJZ8E;ZJKL;<EKJZN?FZI<:<@M<ZK?<Z 3A2! J:?FC8IJ?@GZ8I<ZEFKZ<C@>@9C<.)ZZ/KL;<EKJZ;FZEFKZE<<;ZKF 8GGCPZKFZ9<Z:FEJ@;<I<;Z=FIZK?<Z8N8I;.ZZ%=Z<C@>@9C<,ZK?<PZN@CC 9<Z8LKFD8K@:8CCPZ:FEK8:K<;.ZZ*+0!:ZZ0?<I<Z8I<Z8ZC@D@K<; ELD9<IZF=ZJ:?FC8IJ?@GZ8N8I;JZ8M8@C89C<.ZZAN8I;<<JZ8I< J<C<:K<;Z=IFDZ8DFE>ZK?FJ<ZN@K?ZK?<Z?@>?<JKZ>I8;<ZGF@EK 8M<I8><J.

HONORS SOCIETIES

!)H $ H((
Mathematics & Computer Science Department, Room F-309, ext. 5931

/GFEJFI<;Z9PZK?<Z)8K?<D8K@:8CZAJJF:@8K@FEZF=ZAD<I@:8,Z)L ACG?8 0?<K8Z@JZK?<Z*8K@FE8CZ0NF-5<8IZCFCC<><>)8K?<D8K@:JZ$FEFIZ/F:@<KPZ(>>>.4<(37/(;/,;(.69.).ZZNK @JZ;<;@:8K<;ZKFZ@EJG@I@E>ZB<<EZ@EK<I<JKZ@EZD8K?<D8K@:J, ;<M<CFG@E>ZJKIFE>ZJ:?FC8IJ?@GZ@EZK?<ZJL9A<:K,Z8E;ZGIF-DFK@E>ZK?<Z<EAFPD<EKZF=ZD8K?<D8K@:JZ@EZKNF-P<8IZ:FC-C<><ZJKL;<EKJ.ZZ)<D9<IJ?@GZ@JZ

0?<ZGLIGFJ<ZF=Z,?@Z0?<K8Z'8GG8Z@JZKFZELIKLI<Z8:8;<D@:
<O:<C<E:<Z8KZK?<Z:FC<><Z9PZGIFDFK@E>Z8EZ@EK<C<:KL8CZ:C@D8K<
8E;Z8ZJG<:@8CZJ<EJ<ZF=Z:FDDLE@KPZ8DFE>ZFLIZ?@>?<JK
8:?@<M@E>ZJKL;<EKJ.Z0?<Z?8CCD8IBJZF=Z,?@Z0?<K8Z'8GG8ZKF
N?@:?ZD<D9<IJZGC<;><Z=@;<C@KPZ8I<:ZJ:?FC8IJ?@G,ZC<8;<IJ?@G,
=<CCFNJ?@GZ8E;ZJ<IM@:<.Z,?@Z0?<K8Z'8GG8Z8==FI;JZELD<IFLJ
9<E<=@KJZKFZ@KJZD<D9<IJZ@E:CL;@E>ZK?FLJ8E;J F=Z;FC8IJZ@E
KI8EJ=<IZJ:?FC8IJ?@GJZF==<I<;Z9PZD8EPZ=FLI-P<8IZ:FC<><J
8E;ZLE@M<IJ@K@<J.ZAZ:FDGC<K<ZC@JK@E>ZF=ZJ:?FC8IJ?@GJZ=FIZ,?@
0?<K8Z'8GG8ZD<D9<IJZ:8EZ9<Z=FLE;Z8KZ>>>.7;2.69..Z

/KL;<EKJZN?FZ?8M<Z<8IE<;Z12Z:I<;@KJZ(9<PFE;Z;<M<CFGD<EK8C

@JJL<JZ@EZCFJK8Z.@:8ZK?IFL>?Z8Z:FD9@E8K@FEZF=Z:C8JJIFFD
J<D@E8IJ,Z<OG<I@<EK@8CZC<8IE@E>,Z:LCKLI8CZ@DD<IJ@FEZ8E;
J<C=-JKL;P,Z8E;Z/G8E@J?-C8E>L8>< KI8@E@E>.ZZ0?I<<ZN<<B<E;
=@<C;ZKI@GJZKFZ;@==<I<EKZG8IKJZF=ZCFJK8Z.@:8Z8I<Z@E:CL;<;Z@E
K?<ZGIF>I8D.ZZ 3 ?@C<Z<8:?ZJ<C<:K<;ZJKL;<EKZI<:<@M<JZ8
J:?FC8IJ?@GZF=Z89FLKZ$5,000ZKFN8I;JZ<OG<EJ<JZ8E;ZJK8PJ
N@K?Z8Z?FJKZ=8D@CP,ZJKL;<EKJZ8I<ZI<JGFEJ@9C<Z=FIZK?<@IZ8@I=8I<
(89FLKZ$500);Z=<<JZ8KZ(%1Z(89FLKZ$500);Z8E;Z@E:@;<EK8CJ
N?@C<Z@EZCFJK8Z.@:8.ZZ0FZ9<Z:FEJ@;<I<;,ZJKL;<EKJZDLJK
8GGCPZKFZK?<ZCFJK8Z.@:8Z,IF>I8DZ@EZ.FFDZ) -386.
/KL;<EKJZDLJKZ?8M<Z<C<D<EK8IPZBEFNC<;><ZF=Z/G8E@J?
9<=FI<Z8GGCP@E>,ZFIZJ?FLC;ZJL::<JJ=LCCPZ:FDGC<K<Z8E
@EKIF;L:KFIP /G8E@J?Z:C8JJZ8KZ'@E>J9FIFL>?Z9PZK?<ZJGI@E>
9<=FI<Z;<G8IKLI<.

8K@FE8ℂZ&LE@FIZCFℂ<><ZAK?ℂ<K@:ZAJJF:@8K@FEZ(&CAA)ZFE K?<ZI<>@FE8ℂ,Z;@JKI@:KZ8E;ZE8K@FE8ℂZℂ<M<ℂJ.ZZ

'@E>J9FIFL>?Z@JZ8ZD<D9<IZF=ZK?<ZC@KPZ1E@M<IJ@KPZF=Z*<N 5FIBZAK?ℂ<K@:ZCFE=<I<E:<Z(C1*5AC),Z.<>@FEZ42,Z @JKI@:K F=ZK?<Z*&CAA.Z0?<I<Z8I<Z24ZI<>@FEJZ8E;ZK<EZDFI< <E:FDG8JJ@E> ;@JKI@:KJZ><F>I8G?@:8ℂPZN@K?@EZ*&CAA. 2@:KFI@FLJZK<8DJZ@EZK?<Z.<>@FE8ℂZJKIL:KLI<Z:FDG<K< 8>8@EJKZ<8:?ZFK?<IZKFZ;<K<ID@E<Z @JKI@:KZ:?8DG@FEJZ@E <8:?ZJGFIK.ZZ

)8EPZF=Z'@E>J9FIFL>?SJZK<8DJZ8E;Z@E;@M@;L8ℂZ8K?ℂ<K<J ?8M<ZNFEZE8K@FE8ℂZ8E;ZI<>@FE8ℂZ8N8I;JZ8E;Z>FE<ZFEZKF N@EZJ:?Fℂ8IJ?@GJZKFZJ<E@FIZ:Fℂ<><JZ@EZK?<@IZJGFIKJ.

Notice:

I5D(**69+(5*,D>0;/DB$/,D#;<+,5;':D"0./;-$6-K56>D(5+ C(47<:D#,*<90;@DA*;,CD;/,DC633,.,D>033D796=0+,D(33D:;<+,5;: (5+D796:7,*;0=, :;<+,5;:D>0;/D:;(;0:;0*:D65D.9(+<(;065 9(;,:D(5+D*(47<:D:(-,;@D<765D9,8<,:;.DI5D(++0;065,D(33 ,5963,+D:;<+,5;:D(9,D,5;0;3,+D;6D9,*,0=,D;/,DC633,.,': FE"!AD(F(403@DE+<*(;065(3D"0./;:D(5+D!90=(*@DA*;) 9,.<3(;065:D<765D9,8<,:;.

NOTE: !96.9(4:D(5+D9,8<09,4,5;:,D;<0;065D(5+D-,, :*/,+<3,:D30:;,+D05D;/,D*(;(36.,D(9,D5,*,::(903@D:<)1,*;D;6 */(5.,D(;D(5@D;04,D(;D;/,D+0:*9,;065D6-D;/,D(+405D:;9(;065 (5+/69D(*;065D)@DK05.:)696<./DC644<50;@DC633,.,,D;/, C%N'DB6(9+D6-D$9<:;,,:,D$/,DC0;@D%50=,9:0;@D69D;/,D#;(;, %50=,9:0;@D6-DN,>D'692.

2012-2013

programs and course requirements

GENERAL EDUCATION FOR ALL DEGREE PROGRAMS

K5:3?.;>;A34'?K95??5;:K?@-@1911:@K.135:?KC5@4K@41K2;88;C5:3
@C;K3;-8?:

1. K@;K;221>K-:K1D/1881:@K31:1>-8K10A/-@5;:K@;K-88
   013>11K?@A01:@?
2. K@;K01B18;<K?@A01:@?'K/;9<1@1:/1K5:KC>5@@1:K-:0
   ;>-8 /;99A:5/-@5;:,K=A-:@5@-@5B1K?7588?,K/>5@5/-8
   @45:75:3,K>1?1->/4,K-:0K@1/4:;8;35/-8K85@1>-/E

%41K25>?@K3;-8K5?K-00>1??10K5:K@41?1K?@-@1911:@?K;2K;A@/;91?:K
JK@A01:@9?K1824K-:0K
JK$@A01:@?KC588K74;;?1K2>;9K-KC501K>-:31K;2K85.(K)-33(;)28(; 6)-5(8)-5(K)-(; 6)>6(:)-5(@)-5(K)]TJ 32417-0(17-K5-5(.(K

DEGREE & CERTIFICATE PROGRAMS*

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A<<8,2*=.E27EA;=<E(A.A.)

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C;2627*5EJ><=2,. "-31K45 2105.00

LIBE"ALEA"$#E

L2+.;*5EA;=< "-31K46 5649.00

B->A/4K*5/785:K$/4;;8K;2KBA?5:1??K%>-:?21>K!<@5;:

C458O>1:G?K$@AO51?KC;:/1:@>-@5;:

E:385?4KC;:/1:@>-@5;:

G8;.-8K-:0KE:B5>;:91:@-8K$@AO51?K!<@5;:

$1/;:0->EKE0A/-@5;:KC;:/1:@>-@5;:

(;91:G?K$@AO51?KC;:/1:@>-@5;:

A<<8,2*=.E27E#,2.7,.E(A.#.)

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F27.EA;=< "-31K58K 5610.00

A>@KH5?@;>EKC;:/1:@>-@5;:

C1>-95/?KC;:/1:@>-@5;:

D>-C5:3K-:0K"-5:@5:3KC;:/1:@>-@5;:

"4;@;3>-/J ₸,<

!;80;*6 HEGI#
".:>2;.6.7=< C DE

C MM%NICA$I N#EANDE!E"F "MINGEA"$#
M.-2*E$.,178580BE&EM*7*0.6.7= "-31K71 5008.00
C;:/1:@>-@5;:?:KA0B1>@5?5:3,KE:35:11>5:3,KM-:-3191:@,
1C?,K"1>2;>9-:/1K-:0K">;0A/@5;:

HEAL$H,E!H)#ICALEED%CA$I NE&E"EC"EA$I N
!1B<2,*5EE->,*=287,E".,;.*=287E&
".,;.*=287E$1.;*9BE "-31K74 5506.10
B-//-8-A>1-@1K">;3>-9?K%>-:?21>K!<@5;:K
5:K$<;>@?KM-:-3191:@
B-//-8-A>1-@1K">;3>-9?K%>-:?21>K!<@5;:K
5:K%1-/45:3K"4E?5/-8KEOA/-@5;:KK-12
#1/>1-@5;:K-:0K#1/>1-@5;:K%41>-<EK!<@5;:

MA$HEMA$IC#EANDEC M!%$E"E#CIENCE#
C869>=.;EI7/8;6*=287E#B<=.6< "-31K67 5101.00

N%"#ING
N>;<270 "-31K72 5208.10
#>;02,*5E$.,178580B "-31K77 5211.00

$ %"I#MEANDEH #!IALI)
C>527*;BEA;=< "-31K68 5404.00
M*;2=26.E$.,178580B "-31K70 5403.00
M->5:1K%1/4:5/5-:K!<@5;:
$8>;2<6E&EH8<92=*52=B "-31K78 5011.10
H;?<5@-85@EKC;:/1:@>-@5;:
$<;>@?KM-:-3191:@
%;A>5?9KC;:/1:@>-@5;:

C.;=2/2,*=.E!;80;*6<:

BEHA&I "ALE#CIENCE#EANDEH%MANE#E"&ICE#
A5,81852<6E&E#>+<=*7,.EA+><.
C8>7<.5270 "-31K83 5506.00

B%#INE##
E7=;.9;.7.>;2*5E#=>-2.< "-31K83 5004.00
M.-2,*5E //2,.EA<<2<=*7= "-31K84 5214.00

HEAL$H,E!H)#ICALEED%CA$I NE&E"EC"EA$I N
EA.;,2<.E#,2.7,./!.;<87*5E$;*27270 "-31K83 5299.30

$ %"I#MEANDEH #!IALI)
C>527*;BEA;=< "-31K83 5010.00
M*;27.E$.,178580B:ED.,4E#9.,2*52=B "-31K84 5406.00
M*;2=26.E$.,178580B:EM*;27.EM.,1*72, "-31K84 5406.00

COURSE DESCRIPTIONS BY DEPARTMENT

2012-2013

associate in arts

THE ASSOCIATE IN ARTS (A.A.) DEGREE

$@A01:@?K5:K@41KL5.1>-8KA>@?K<>;3>-9K->1K1D<;?10K@;K@41
4A9-:5@51?,?;/5-8K?/51:/1?,K?/51:/1,K-:0K9-@419-@5/?.K%41
;.61/@5B1?K->1K?59 58->K@;K@41K<>1?/>5.10K/;A>?1?K2>1=A1:@8EK2;A:0
5:K@41K25>?@K@C;KE1->?K;2K.-//-8-A>1-@1K85.1>-8K->@?K<>;3>-9?.
$@A01:@?KC4;K<8-:K@;K/;:@5:A1K@415>K?@A051?-:0K1->:K45341>
013>11?,K25:0K@4-@K@415>KK5:3?.;>;A34KA.A.K013>11K?1>B1?K-?K-
?;85OK2;A:0-@5;:K2;>K@>-:?21>K@;K-K?1:5;>K;>K<>;21??5;:-8K/;8131.
">;B5?5;:?K2;>K?9;;@4K@>-:?21>K.1@C11:KKCCK-:0KC&),K$&)
-:0K9-:EK<>5B-@1K/;8131?K->1K5:K1221/@.KK

%41KA.A.K5:KC>59 5:-8KJA?@5/1K5?K-K6;5:@K<>;3>-9KC5@4KC&)G?
J;4:KJ-EKC;8131K;2KC>59 5:-8KJA?@5/1.

AK?@A01:@K9A?@K1->:K-@K81-?@K-KHCIK3>-01K(2.00K5:01D)K-:0K4-B1
2A82588 10K-88K013>11K>1=A5>1 9 1:@?K@;K.1K/1>@52510K2;>K@41K013>11.

A.A. DEGREE PROGRAMS

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#1=A5>1 9 1:@?,K<-31K45
C;A>?1KD1?/>5<@5;:?,K<-31K136

L2+.;*5EA;=<
(C5@4K /;:/1:@>-@5;:?K5:KC4580>1:G?K $@AO51?,K E:385?4,K G8;.-8K-:0
E:B5>;:91:@-8K$@AO51?,K$1/;:0->EKE0A/-@5;:,K (;91:G?K$@AO51?K,
-:0K@41KB->A/4K*5/785:K$/4;;8K;2KBA?5:1??K@>-:?21>K;<@5;:)
#1=A5>1 9 1:@?,K<-31K46
C;A>?1KD1?/>5<@5;:?,K?11KD1<->@91:@-8K<-31?

A.A.EC"IMINALEJ%#$ICE CE

$ $ALEC"EDI$#E60

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COLLEGE REQUIREMENTS
Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required..

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 .....3 credits
ENG 2400 3
HE 1400 1

DEPARTMENT REQUIREMENTS §
Introduction to Criminal Justice (POL 6300).....3 credits
Crime and Punishment (POL 6400) 3
Constitutional Law (POL 6600).....3
The American Legal System; The Courts (POL 6700) 3
Policing (CRJ 6900) or Corrections and Sentencing (CRJ 7000).....3

GENERAL EDUCATION REQUIREMENTS — 32 credits
The following courses are specified to satisfy core studies requirements for the B.A. in Criminal Justice at John Jay College of Criminal Justice

Group A: ARTS AND HUMANITIES.....12 credits
- SPE 1100 or SPE 2100 **and**
- ART or MUS elective **and**
- PHI 7100 or PHI 7200 **and**
- A Literature elective selected from the following: ENG 3100 or ENG 3200 or ENG 3500 or ENG 7300 or ENG 7400

Group B: BEHAVIORAL AND SOCIAL SCIENCES .....12 credits
- POL 5100 **and**
- HIS 5100 or HIS 5200 **and**
- SOC 3100 **and**
- SOC 3600 or POL 7200

Group C: MATHEMATICS AND SCIENCES .....8 credits
MAT 1300 **and** BIO 3300

ELECTIVES: 6 credits sufficient to meet required total of 60 credits. A computer applications course is recommended.

- These programs are within the History, Philosophy & Political Science Department.

§ Consultation with the Program Advisor is required.

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$ $ALEC"EDI$#E60

" . : >2; . 6 . 7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS
Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

At least one (1) Writing Intensive course in any discipline is required. Such courses are designated "W." Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 .....3 credits
ENG 2400 3
HE 1400.....1

GENERAL EDUCATION REQUIREMENTS
The courses completed in Groups A, B and C combined must total no less than 43–44 credits.

Group A: ARTS AND HUMANITIES — 15–18 credits
A

Art, Media Arts and Film Studies, Music or Theatre Arts ....3 credits
Speech.....3
Literature 3
Philosophy 3
Group A Elective(s)* 3–6

Group B: BEHAVIORAL AND SOCIAL SCIENCES — 15–18 credits
A

American Politics.....3 credits
United States History 3
World History **or** Anthropology.....3
Psychology 3
Sociology.....3
Group B Elective* 0–3

Group C: MATHEMATICS AND SCIENCES — 7–11 credits
s

Mathematics .....3 or 4 credits
Science with laboratory 4
Group C Elective* .....0 – 3

* Elective credits , including groups A, B, or C electives, provide students the option to take up to 3 courses in one discipline.
If pursuing one of the following concentrations, students must consult with the respective program advisor and follow the course of study for that concentration.

ENGLISH CONCENTRATION
Majors electing this concentration must satisfy the Literature requirement above and 6 credits of Group A Electives by selecting from the following literature and creative writing courses: ENG 3000 – 7800 excluding ENG 05500

CHILDREN'S STUDIES CONCENTRATION
This Concentration articulates with the B.A. in Children and Youth Studies at Brooklyn College. Students completing this concentration must fulfill all College and Liberal Arts requirements and group courses as follows:

Group A: ARTS AND HUMANITIES — 18-20 credits **including:**
a. One course selected from **each**: Speech, English Literature, **and** Philosophy
b. One course from Art, Media, Film Studies, Music **or** Theatre
c. Two courses from any Arts or Humanities disciplines **OR** Foreign Language I + one Arts and Humanities elective **OR** Foreign Language I and II

Group B: BEHAVIORAL AND SOCIAL SCIENCES — 18 credits **including:**
a. Two courses from any Group B disciplines A
and
b. SOC 3100, SOC 3500, PSY 1100 **and**
c. PSY 3200 **or** PSY 2400

Group C: MATHEMATICS AND SCIENCES — 11 credits **including:**
a. Math course **and** laboratory science course .....7–8 credits
b. Plus elective in either math, computer science, biology **or** physical science .....3–4 credits

GLOBAL & ENVIRONMENTAL STUDIES OPTION
Students completing this option must fulfill all College and Liberal Arts requirements including group courses as follows:

Group A: ARTS AND HUMANITIES — 18-20 credits **including:**
a. Global Ethics (PHI 7900).....3
b. Intercultural Communication (SPE 2600) 3
c. Modern Architecture and the Environment (ART 9500) 3
d. American Environmental Literature (ENG 4800) 3
e. Plus **two** of the following courses: 3
- Survey of Art History: From Ancient to Renaissance (ART 3300)
- Survey of Art History: From Renaissance to 19th Century (ART 3400)
- African, Oceanic and Native American Art (ART 3700)
- Renaissance Art (ART 3800)
- Effective Public Speaking (SPE 2100)
- Music of the World's People (MUS 2700)
- World Literature (ENG 3200)
- Philosophy of Religion (PHI 7700)
- Foreign Language Level I (100)*
- Foreign Language Level II (200)*

Group B: BEHAVIORAL AND SOCIAL SCIENCES — 18 credits **including:**

a. Intro to Anthropology (ANT 3700) **or** Intro to Sociology (SOC 3100).....3 credits

b. International Organization (POL 7100).....3

c. U.S. History in Global Perspective II (HIS 1800).....3

d. Global Politics (POL 9300).....3

e. Plus one of the following courses:.....3

- U.S. History in Global Perspective I (HIS 1700)
- Modern China (HIS 3200)
- Africa: Past and Present (HIS 3300)
- The Middle East: World War I to the Present (HIS 3700)
- The Caribbean: 1942 to the Present (HIS 4200)
- Russian History: 1860 to the Present (HIS 5300)
- Latin American History (HIS 5700)
- Historical Geography (HIS 7000)

f. Plus one of the following courses:.....3

- Macroeconomics (ECO 1200)
- International Trade: Trading Beyond Borders (ECO 2000)
- Introduction to Anthropology (ANT 3700)
- Introduction to Sociology (SOC 3100)
- Comparative Government (POL 5200)
- The Politics of Economics: Intro to Political Economy (POL 5700)
- Environmental Politics (POL 5800)

Group C: MATHEMATICS AND SCIENCES — 13-15 credits **including:**

a. Developments in the Physical Sciences & the Environment (SCI 3700).....4 credits

b. Elements of Statistics (MAT 2000).....3

c. Plus **two** of the following courses:.....6-8

- People and Environment (BIO 4900)
- Chemistry and Environment (SCI 5100)
- Introduction to Earth Science (EPS 3800)*
- Introduction to Marine Biology (BIO 2500)
- Introduction to Modern Concepts of Biology (BIO 3300)*

ELECTIVES — (0-4 credits) sufficient to meet total requirement of 60 credits

2012-2013

associate in science

THE ASSOCIATE IN SCIENCE (A.S.) DEGREE

A.S. DEGREE PROGRAMS

B285B0B
#1=A5>191:@?,K<-31K50
C;A>?1KD1?/>5<@5;:?,K<-31K99

B28=.,1785B0B
#1=A5>191:@?,K<-31K50
C;A>?1KD1?/>5<@5;:?,K<-31K99

C1.62,*5ED.9.7-.7,BEC8>7<.5270
#1=A5>191:@?,K<-31K52
C;A>?1KD1?/>5<@5;:?,K<-31K97

C1.62<=;B
#1=A5>191:@?,K<-31K52
C;A>?1KD1?/>5<@5;:?,K<-31K158

C866>72=BEH.*5=1
#1=A5>191:@?,K<-31K53
C;A>?1KD1?/>5<@5;:?,K<-31K129

C869>=.;E#,2.7,.
#1=A5>191:@?,K<-31K54
C;A>?1KD1?/>5<@5;:?,K<-31K146

E*;5BEC125-188-EE->,*=287E/EC125-EC*;.
#1=A5>191:@?,K<-31K54
C;A>?1KD1?/>5<@5;:?,K<-31K91

E*;=1E*7-E!5*7.=*;BE#,2.7,.<
#1=A5>191:@?,K<-31K55
C;A>?1KD1?/>5<@5;:?,K<-31K159

E->,*=287E#=>-2.<
#1=A5>191:@?,K<-31K56
C;A>?1KD1?/>5<@5;:?,K<-31K91

E702 7..;270E#,2.7,.
#1=A5>191:@?,K<-31K56
C;A>?1KD1?/>5<@5;:?,K<-31K150

EA.;,2<.E#,2.7,./!.;<87*5E$;*2720
#1=A5>191:@?,K<-31K57
C;A>?1KD1?/>5<@5;:?,K<-31K130

F27.EA;=<
#1=A5>191:@?,K<-31K58
C;A>?1KD1?/>5<@5;:?,K<-31K87

J8>;7*52<6E*7-E!;27=EM.-2*
#1=A5>191:@?,K<-31K59
C;A>?1KD1?/>5<@5;:?,K<-31K124

M*=1.6*=2,<
#1=A5>191:@?,K<-31K59
C;A>?1KD1?/>5<@5;:?,K<-31K146

M.7=*5EH.*5=1E*7-EH>6*7E#.;?2,.<
#1=A5>191:@?,K<-31K60
C;A>?1KD1?/>5<@5;:?,K<-31K95

!1B<2,<
#1=A5>191:@?,K<-31K61
C;A>?1KD1?/>5<@5;:?,K<-31K160

#,2.7,.E/8;EF8;.7<2,<
#1=A5>191:@?,K<-31K61
C;A>?1KD1?/>5<@5;:?,K<-31K158

#9..,1EC866>72,*=287
#1=A5>191:@?,K<-31K62
C;A>?1KD1?/>5<@5;:?,K<-31K116

$1.*=;.EA;=<
#1=A5>191:@?,K<-31K63
C;A>?1KD1?/>5<@5;:?,K<-31K118

A.#.EBI L G)

DEPARTMENT: Biological Sciences

$ $ALEC"EDI$#:E60D64

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COLLEGE REQUIREMENTS
Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200.....3 credits
ENG 2400.....3
HE 1400.....1

DEPARTMENT REQUIREMENTS §
General Biology I and II (BIO 1300 **and** BIO 1400).....8 credits
General Chemistry I and II (CHM 1100 **and** CHM 1200) 8
Analytic Geometry and Pre-Calculus Math (MAT 1400)
or FOR OCCUPATIONAL THERAPY or PHYSICIAN ASSISTANT TRANSFER OPTIONS: Elements of Statistics (MAT 2000).....3 - 4
Introduction to Computer and Computer Applications (CP 1100) **or** Applications in Bioinformatics (BIO/CIS 6000) .....3 - 4
Any Biology Laboratory Courses (excluding BIO 700-1100-1200, BIO 3300 and BIO 5100).....8

To fulfill the above requirement in Biology electives for the following options:

CONCENTRATION IN BIOTECHNOLOGY
General Microbiology (BIO 5000) and Genetics (5900)

CONCENTRATION IN MARINE BIOLOGY
Marine Biology (BIO 5200) and any one of the following: BIO 2100, 2200, 5000, 5300, 5400, 5500 or 5900

TRANSFER TO THE B.S. IN HEALTH AND NUTRITION SCIENCE OFFERED BY BROOKLYN COLLEGE:
Research Methods in Nutrition Science (BIO 6100)

PHARMACY TRANSFER OPTION
Human Anatomy and Physiology I and II (BIO 1100 **and** BIO 1200)

PHYSICIAN ASSISTANT TRANSFER OPTION
Human Anatomy and Physiology I and II (BIO 1100 **and** BIO 1200)

COMPLETION OF VOLUNTEER PROGRAM CONCERNED WITH DIRECT PATIENT CARE AT LEAST ONE YEAR BEFORE TRANSFER INTO A BACCALAUREATE PROGRAM LEADING TO CERTIFICATION AS A PHYSICIAN ASSISTANT.

Courses must be discussed in advance with Department Advisor. Specific recommendations for group distribution courses or electives are dependent upon the requirements of particular occupational therapy or pharmacy programs to which the student may wish to apply for transfer.

GENERAL EDUCATION REQUIREMENTS — 9 credits
A minimum of 3 credits in each Group A and B and 3 credits in either Group A or B in a different discipline. Group C is satisfied by department requirements.

Group A: ARTS and HUMANITIES.....3–6 credits

TRANSFER OPTION TO B.S. IN HEALTH AND NUTRITION SCIENCE (BROOKLYN COLLEGE):
ENG 3000 or 4000 **or** PHI 7100 or 7200

ALL OTHER CONCENTRATIONS OR OPTIONS: Select a course from the following disciplines: *A - F - - - - A*
Excluded are Art studio, Music studio, Theatre production & skills courses

Group B: BEHAVIORAL AND SOCIAL SCIENCES.....3–6 credits

TRANSFER OPTION TO B.S. IN HEALTH AND NUTRITION SCIENCE (BROOKLYN COLLEGE):
- Introduction to Anthropology (ANT 3700) **or** General Psychology (PSY 1100)
- Europe: Napoleon to Hitler, 1789 to 1945 (HIS 3100) **or** The Ancient World (HIS 5100)

PHYSICIAN ASSISTANT TRANSFER OPTION:
General Psychology (PSY 1100) **and** Human Growth and Development (PSY 3200)

SECONDARY EDUCATION TEACHER TRANSFER OPTION:
Educational Psychology (PSY 3500)

ALL OTHER OPTIONS:
Any course(s) selected from the following disciplines: *A - - H - - -*

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C %N#ELING

DEPARTMENT: Behavioral Sciences and Human Services

$ $ALEC"EDI$#:E60

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COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 .....3 credits
ENG 2400 3
HE 1400 1

DEPARTMENT REQUIREMENTS§

Introduction to Substance Abuse Counseling (SAC 2000) .....3 credits
Basic Techniques in Substance Abuse Counseling I (SAC 2200) 3
Basic Techniques in Substance Abuse Counseling II (SAC 2400) 3
Ethics, Confidentiality, & Counselor/Client Relationship (SAC 2600) 3
Treatment Approaches in Substance Abuse (SAC 2800) 3
Supervised Instructional Experience in Substance Abuse Counseling (SAC 91A0/B).....7

GENERAL EDUCATION REQUIREMENTS

Group A: ARTS AND HUMANITIES.....3 credits

A.#.EC M!%$E"E#CIENCE

DEPARTMENT: Mathematics and Computer Sciences

$ $ALEC"EDI$#:E60 D 64

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COLLEGE REQUIREMENTS
Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 .....3 credits
ENG 2400 3
HE 1400 1

DEPARTMENT REQUIREMENTS §
Introduction to Computing (CS 1200) .....4 credits
Advanced Programming Techniques (CS 13A0) 4
Computer and Assembly Language Programming (CS 1400) 5
Discreet Structures (CS 3500) 5
+Calculus I, II and III (MAT 1500 **and** MAT 1600 **and** MAT 2100) 12
Linear Algebra (MAT 5600) 4
Biostatistics (MAT/BIO 9100) **or**
Business Statistics (MAT/BUS 2200) 4
Differential Equations (MAT 5500) 3

GENERAL EDUCATION REQUIREMENTS — 13 Credits
Nine (9) credits from Groups A and B (a minimum of three (3) credits from each group plus three (3) more credits in another discipline from either Group) plus four (4) credits from Group C.

Group A: ARTS AND HUMANITIES.....3 – 6 credits
A - - - - A
Excluded are Art studio, Music studio, Theatre production & skills courses

Group B: BEHAVIORAL AND SOCIAL SCIENCES.....3 – 6 credits
A - - H -
-

Group C: MATHEMATICS AND SCIENCES .....4 credits
One Laboratory Science course selected from:

NOTE:

ELECTIVES: 0–4 sufficient to meet required total of 60–64 credits

§ Consultation with the Department Advisor is required.

+ Prerequisites must be met. Additional credits may be required.

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DEPARTMENT: Behavioral Sciences and Human Services

$ $ALEC"EDI$#:E60

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COLLEGE REQUIREMENTS
Successful completion of CUNY/ACT Tests in Reading and Writing and the COMPASS Math Skills Test with passing examination scores or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 .....3 credits
ENG 2400 3
HE 1400 1

A.#.EENGINEE"INGE#CIENCE

DEPARTMENT: Physical Sciences

$ $ALEC"EDI$#:E66-70

". :>2;.6.7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 .....3 credits
ENG 2400 3
HE 1400 1

GENERAL EDUCATION REQUIREMENTS

A minimum of six (6) from Group A, six (6) from Group B and fourteen (14) from Group C.

Group A: ARTS AND HUMANITIES .....6 credits

A.#.EFINEEA"$#

DEPARTMENT: Art

$ $ALEC"EDI$#:E60

" . : >2; . 6 . 7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated **"W"**. Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 .....3 credits
ENG 2400 3
HE 1400 1

DEPARTMENT REQUIREMENTS §

ALL majors must take:

Survey of Art History I and II (ART 3300 and ART 3400)....6 credits
Design I (ART 5500) 3
Drawing I (ART 5700) 3

PLUS ONE OF THE FOLLOWING CONCENTRATIONS:

ART HISTORY

Modern Art I and II (ART 3500 **and** ART 3600).....6 credits
Renaissance Art (ART 3800) 3
Recommended Electives 9

CERAMICS

Ceramics I (ART 6300) 3
Ceramics II (ART 6400) 3
Ceramics Sculpture (ART 8000).....3
Recommended Electives 7-9

DRAWING AND PAINTING

Drawing II (ART 5800) 3
Painting I and II (ART 5900 **and** ART 6000).....7
Recommended Electives 7-9

PHOTOGRAPHY

Photography I (ART 5100) 3
Photography II (ART 5200) 3
The Art of Digital Photography (ART 9400).....3
Recommended Electives 6

SCULPTURE

Sculpture I and II (ART 6100 and ART 6200) 7
Figure Modeling (ART 8300) 3
Recommended Electives 7-9

GENERAL EDUCATION REQUIREMENTS .....19 – 20 credits

Group A: ARTS AND HUMANITIES .....6 credits

A

Excluded are all Art courses, also Music and Theatre courses

Group B: BEHAVIORAL AND SOCIAL SCIENCES.....6 credits

A H

Group C: MATHEMATICS AND SCIENCES .....7 - 8 credits

- One Mathematics course
- One Laboratory Science course selected from:

ELECTIVES: (2– 7 credits) sufficient to meet required total of 60 credits

§ Consultation with the Department Advisor is required.

A.#.EJ %"NALI#ME ANDE!"IN$EMEDIA

DEPARTMENT: English

$ $ALEC"EDI$#:E60

". :>2;.6.7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS
Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 .....3 credits
ENG 2400 3
HE 1400.....1

DEPARTMENT REQUIREMENTS §
Journalism: Basic and Advanced (JRL 3100 **and** JRL 3200).....6 credits
Feature and Magazine Writing (JRL 4400).....3

GENERAL EDUCATION REQUIREMENTS — 32–37 credits
Students who choose to complete this program are required to take the following courses:

Group A: ARTS AND HUMANITIES
ART 7300 **or** ART 7400 **or** SPE 2100.....3
******Foreign Language I and/or II (**or** Philosophy elective if exempt from Foreign Language).....9-14
Two (2) courses in English Literature (ENG 3000 and ENG 4000 recommended)

Group B: BEHAVIORAL AND SOCIAL SCIENCES
HIS 1100 **or** HIS 3100 **and** POL 5100 6
PSY 1100 **and** SOC 3100 6

Group C: MATHEMATICS AND SCIENCES
MAT 700.....4
One Laboratory Science course selected from:.....4

ELECTIVES: 7–12 credits sufficient to meet required total of 60 credits

• This program is within the English Department.

§ Consultation with the Program Advisor is required.

****** Minimum of 1 semester of Foreign Language must be taken unless exempt based on Foreign Language Proficiency, High School Regents Exams, CLEP or other proficiency exams. English electives must be selected in consultation with Program Advisor.

A.#.EMA$HEMA$IC#

DEPARTMENT: Mathematics and Computer Sciences

$ $ALEC"EDI$#:E60

". :>2;.6.7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS
Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "rVting, any

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DEPARTMENT: Behavioral Sciences and Human Services

$ $ALEC"EDI$#:E60

". :>2;. 6 .7(9)14(?)*>$ $(&)

A.#.E!H)#IC#

DEPARTMENT: Physical Sciences

$ $ALEC"EDI$#:E60

". :>2;. 6 .7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 .....3 credits
ENG 2400 3
HE 1400.....1

DEPARTMENT REQUIREMENTS §

Advanced General Physics I and II
(PHY 1300 **and** PHY 1400).....8 credits
Advanced Electives, choose: ..... 8 – 11
Either MAT 5500 or

A.#.E#!EECHEC MM%NICA$I N

DEPARTMENT: Communications and Performing Arts

$ $ALEC"EDI$#:EE60E

" . : >2; . 6 . 7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 .....3 credits
ENG 2400 3
HE 1400.....1

DEPARTMENT REQUIREMENTS§

ALL Majors must take:

Career Communication (SPE 2400) .....3 credits
Small Group Communication (SPE 2500).....3
Oral Interpretation (SPE 2700) 3
Voice & Articulation (SPE 2900) 3

COMMUNICATION STUDIES CONCENTRATION:

Interpersonal Communication (SPE 1200) 3
Effective Public Speaking (SPE 2100) 3
Intercultural Communication (SPE 2600).....3

SPEECH PATHOLOGY CONCENTRATION:

Phonetics (SPE 4000) 3
Interpersonal Communication (SPE 1200) or 3
Intercultural Communication (SPE 2600)
Language Development (SPE 4100).....4

GENERAL EDUCATION REQUIREMENTS — Minimum of 23 credits

Group A — ARTS AND HUMANITIES

..... 4 - 6 credits

Group B — BEHAVIORAL AND SOCIAL SCIENCES

.....6 credits

..... 6 credits

Group C — MATHEMATICS AND SCIENCES.....7 - 8 credits

One Mathematics course

One Laboratory Science course selected from:

ELECTIVES:

COMMUNICATION STUDIES CONCENTRATION:

6 – 9 credits sufficient to meet required total of 60 credits

SPEECH PATHOLOGY CONCENTRATION:

5 – 8 credits sufficient to meet required total of 60 credits

§ Consultation with Department Advisor is required.

A.#.EHEA"EEA"$#

DEPARTMENT: Communications and Performing Arts

$ $ALEC"EDI$#:EE60E

". : >2;. 6 . 7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS

Passing scores on the CUNY-widhQthe RWeVbhQMfqbgWassaRWeVbhQMwritWassaRWeVbhQMandYJPORTdlmathsing —ug\6peLRpthe the

2012-2013

associate in applied science

THE ASSOCIATE IN APPLIED SCIENCE (A.A.S.) DEGREE

%41KK5 : 3?. ; > ; A34KA.A.$.K013>11K<> ; 3> - 9 ?KC1>1K?<1/525/ - 88E
01?53 : 10K2 ; >K?@A01 : @?KC4 ; KC5?4K@ ; K?@ - >@K - K / - >11>K ; : K - K?1 95 -

A.A.S. DEGREE PROGRAMS

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C ; A>?1KD1?/>5<@5 ; : ?, K<-31K105

B><27. <<EA - 6272<=; *=287
#1=A5>191 : @?, K<-31K66
C ; A>?1KD1?/>5<@5 ; : ?, K<-31K107

C8 6 9>=. ; EI7/8 ; 6 *=287E#B<=. 6 <
#1=A5>191 : @?, K<-31K67
C ; A>?1KD1?/>5<@5 ; : ?, K<-31K143

C>527*; BEA ; =<
#1=A5>191 : @?, K<-31K68
C ; A>?1KD1?/>5<@5 ; : ?, K<-31K162

F*<1287ED. <207
#1=A5>191 : @?, K<-31K68
C ; A>?1KD1?/>5<@5 ; : ?, K<-31K109

G ; *912, ED. <207E*7 - EI55><=; *=287
#1=A5>191 : @?, K<-31K69
C ; A>?1KD1?/>5<@5 ; : ?, K<-31K87

M*; 2=26. E$. , 17850B
#1=A5>191 : @?, K<-31K70
C ; A>?1KD1?/>5<@5 ; : ?, K<-31K166

M. - 2*E$. , 17850BE*7 - EM*7*0. 6. 7=
#1=A5>191 : @?, K<-31K71
C ; A>?1KD1?/>5<@5 ; : ?, K<-31K114

N>; <270
#1=A5>191 : @?, K<-31K72
C ; A>?1KD1?/>5<@5 ; : ?, K<-31K152

//2, . EA - 6272<=; *=287E*7 - E$. , 17850B
#1=A5>191 : @?, K<-31K73
C ; A>?1KD1?/>5<@5 ; : ?, K<-31?K106K - : 0K111

! 1B<2, *5EE - >, *=287, E". , ; . *=287E*7 - E". , ; . *=287E$1. ; *9B
#1=A5>191 : @?, K<-31K74
C ; A>?1KD1?/>5<@5 ; : ?, K<-31K131

! 1B<2, *5E$1. ; *92<=EA<<2<=*7=
#1=A5>191 : @?, K<-31K75
C ; A>?1KD1?/>5<@5 ; : ?, K<-31K103

". =*25EM. ; , 1*7 - 2<270
#1=A5>191 : @?, K<-31K76
C ; A>?1KD1?/>5<@5 ; : ?, K<-31K110

#>; 02, *5E$. , 17850B
#1=A5>191 : @, K<-31K77
C ; A>?1KD1?/>5<@5 ; : ?, K<-31K155

$8>; 2< 6E*7 - EH8<92=*52=B
#1=A5>191 : @?, K<-31K78
C ; A>?1KD1?/>5<@5 ; : ?, K<-31K163

' . +<2=. ED. ?. 5896. 7=E*7 - EA - 6272<=; *=287
#1=A5>191 : @?, K<-31K79
C ; A>?1KD1?/>5<@5 ; : ?, K<-31K111

A.A.#.EC%LINA") EA"$#

DEPARTMENT: Tourism & Hospitality

$ $ALEC"EDI$#E60

". :>2;. 6 .7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 .....3 credits
ENG 2400 3
HE 1400 1

DEPARTMENT REQUIREMENTS§

Introduction to Professional Food Service (TAH 7100) .....3 credits
Culinary Arts I: Skills (CA 100) 3
Culinary Arts II: Major Techniques (CA 200) 3
Baking and Pastry (CA 1100) 3
Food Safety and Sanitation Certification (CA 2100) 1
Garde Manger and Charcuterie (CA 300) **or**
Patisserie (CA 1200) 3
Beverage Management (CA 6000) **or**
Event Catering Management (TAH 4300) 3
Restaurant Operations (TAH 7200) 3

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DEPARTMENT: Art

$ $ALEC"EDI$#:E60

". :>2;.6.7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 .....3 credits
ENG 2400 3
HE 1400 1

DEPARTMENT REQUIREMENTS§

Choose one of the following four Art History courses:
Art Survey I (ART 3300) **or** Art Survey II (ART 3400) **or** Modern Art I (ART 3500) **or** Modern Art II (ART 3600)...3 credits
Design I (ART 5500).....3
Drawing I (ART 5700).....3
Illustration (ART 6800) 3
Publication Design (ART 7300).....3
Experimental Typography (ART 7400) 3
Digital Art Illustration (ART 4300) 3
Computer Assisted Illustration (ART 4600).....3
Introduction to Graphic Design & Advertising (ART 7500) 3

Plus, select one of the following Concentrations:

GRAPHIC DESIGN

Illustration Style (ART 6900) 3
Designing with Type (ART 4000) 3
and one art elective 3

ANIMATION:

The Art of Animation (ART 9600).....3
The Art of 3D Animation (ART 4800) 3
The Art of Storyboarding (ART 4900).....3

GENERAL EDUCATION REQUIREMENTS — 16–17 credits
Nine (9) credits from Groups A and B (a minimum of three (3) credits from each group plus three (3) more credits in another discipline from either Group A or B) plus seven (7) or eight (8) credits from Group C.

Group A: ARTS AND HUMANITIES.....3 - 6 credits

Excluded are all Art courses, Music studio, Theatre production & skills courses

Group B: BEHAVIORAL AND SOCIAL SCIENCES.....3 - 6 credits

Group C: MATHEMATICS AND SCIENCES.....7 - 8 credits
One Mathematics course
One Laboratory Science course selected from:

ELECTIVES: 0 – 1 sufficient to meet required total of 60 credits

§ Consultation with the Department Advisor is required.

NOTE: Consult with Advisor to use electives for concentrations in: Advertising, Engineering, Management, News, Performance and Production.

GENERAL EDUCATION REQUIREMENTS: — 16–23 credits

Group A: ARTS AND HUMANITIES .....3–6 credits

Group B: BEHAVIORAL AND SOCIAL SCIENCES .....6–9 credits

PLUS, OPTIONS FOR NON-STENOGRAPHIC MAJORS WITH CONCENTRATIONS IN:

WORD/INFORMATION PROCESSING

Basic Word/Information Processing (TEC 2100).....3 credits
Machine Transcription (TEC 2300).....3
Office Systems and Procedures (ADM 2400) 3
Office Computer Applications 1 (TEC 2500).....3
Office Computer Applications 11 (TEC 2600).....3

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DEPARTMENT: Biological Sciences

A.A.#.E#%"GICALE$ECHN L G)

DEPARTMENT: Nursing

$ $ALEC"EDI$#:E64

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COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 .....3 credits
ENG 2400 3

DEPARTMENT REQUIREMENTS §

Surgical Pharmacology (ST 4500) 3
Surgical Technology I (ST 100).....3
Surgical Technology II (ST 200).....2
Surgical Technology III (ST 300).....4
Practicum I (ST 3P00).....2
Surgical Procedures (ST 400).....3
Practicum II (ST 4P00).....3
Advanced Surgical Procedures (ST 500).....4
Practicum III (ST 5P00).....3
Professional Strategies for the Surgical Technologist (ST 600) 2
Practicum IV (ST 6P00) 3

GENERAL EDUCATION REQUIREMENTS

Group A: ARTS AND HUMANITIES

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DEPARTMENT: Tourism & Hospitality

$ $ALEC"EDI$#E60

" . : >2; . 6 . 7=<E/8;EM *=;2, >5*7=<

COLLEGE REQUIREMENTS
Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated "W". Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 ....3 credits
ENG 2400 3
HE 1400 1

DEPARTMENT REQUIREMENTS §
ALL Majors must take:
Introduction to Travel and Tourism (TAH 100)..............3 credits
Introduction to Computer Concepts (BA 6000) 3
Principles of Marketing (BA 1400) **or**
Tourism & Hospitality Marketing (TAH 2500) 3
Professional Portfolio (TAH 9100) 1
Field Experience in Travel and Hospitality (TAH 9200).............3
Case Studies in Tourism and Hospitality (TAH 1800) 3
Tourism and Hospitality Entrepreneurship (TAH 1200) 3
The Virtual Enterprise (TAH 9000) 3
Labor Relations & Customer Service (TAH 500) 3
The Business of Tourism and Hospitality (TAH 1900) 3

PLUS, FOR MAJORS WITH CONCENTRATION IN:

TOURISM
Required:
Tourism Technology (TAH 1700)..3

In addition, students must take **<u>two</u>** of the following courses for a total of 6 credits:
Destination Geography (TAH 200) 3
Cruises and Specialty Travel Markets (TAH 1500) 3
Airport and Aviation Management (TAH 6500) 3
Aviation and Airport Security (TAH 6900) 3

HOSPITALITY
Required:
Hospitality Technology (TAH 5200) 3

In addition, students must take **<u>two</u>** of the following courses for a total of 6 credits:
Front Office Operations (TAH 2200) 3
Introduction to Meeting Planning (TAH 4100) 3
Event Catering Management (TAH 4300) 3
Introduction to Professional Food Service (TAH 7100)............. 3

SPORTS MANAGEMENT
Introduction to Sports Management (TAH 700) 3
Facilities Planning in Sports (TAH 4400) 3

GENERAL EDUCATION REQUIREMENTS — 16 credits
Nine (9) credits from Groups A and B (a minimum of three (3) credits from each group plus three (3) more credits in another discipline from either Group A or B) plus seven (7) credits from Group C.

Group A: ARTS AND HUMANITIES ....3 - 6 credits
A - - - - , -
- - , - *A*
Excluded are Art studio, Music studio, Theatre production & skills courses

Group B: BEHAVIORAL AND SOCIAL SCIENCES......3 - 6 credits
A - *H* - , -
- ,

Group C:

A.A.#.E ' EB#I$EEDE&EL ! MEN$ ANDEADMINI#$"A$I N

DEPARTMENT: Business

$ $ALEC"EDI$#E60

" . : >2; . 6 . 7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

One (1) Writing Intensive course in any discipline from any category below is required. Such courses are designated “W”. Participation in a Learning Community that includes ENG 12 also satisfies this requirement.

ENG 1200 ....3 credits
ENG 2400 3
HE 1400 1

DEPARTMENT REQUIREMENTS§
ALL Majors must take:
Office Communication Skills (ADM 3700) **or**
Business Communication (BA 3300).......................................3
The Computer as a Design Tool (TEC 5700) 3
Office Computer Applications I (TEC 2500)................................3
Photodigital Illustration (TEC 5900)..3
Business Law (BA 1200)..3
Adobe Flash for Web Development (TEC 5600)..........................3
HTML Authoring and JavaScript (CIS 2200)................................4
Basic Desktop Publishing (TEC 5800) 3
Website Technology I (TEC 5300)..3
Website Technology II (TEC 5400)..3
Website Technology III (TEC 5500)...3
Business Technologies (ADM 2500)...3

GENERAL EDUCATION REQUIREMENTS — 16 credits
Nine (9) credits from Groups A and B (a minimum of three (3) credits from each group plus three (3) more credits in another discipline from either Group A or B) plus seven (7) credits from Group C.

Group A: ARTS AND HUMANITIES ....3–6 credits
A - - - - - - - *A*
Excluded are Art studio, Music studio, Theatre production & skills courses
Effective Public Speaking (SPE 2100)

Group B:

2012-2013

certificate programs

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DEPARTMENT: Behavioral Sciences and Human Services

$ $ALEC"EDI$#:E25

". :>2;. 6 .7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

ENG 1200 .....3 credits

CERTIFICATE REQUIREMENTS §

Introduction to Alcoholism and Substance Abuse Counseling (SAC 2000) .....3 credits
Counseling Techniques in the Substance Abuse Field I (SAC 2200) 3
Counseling Techniques in the Substance Abuse Field II (SAC 2400) 3
Confidentiality, Ethics, & the Counselor/Client Relationship (SAC 2600) 3
Approaches to Treatment Varieties of Alcohol & Substance Abuse Internship (SAC 2800) 3
Substance Abuse Counseling Field Internships I and

CE"$IFICA$EEINEEN$"E!"ENE%"IAL #$%DIE#

DEPARTMENT: Business

$ $ALEC"EDI$#:E25

". :>2;. 6 .7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

CERTIFICATE REQUIREMENTS §
ALL Majors must take:

Fundamentals of Accounting I (ACC 1100) .....4 credits
Small Business and the Entrepreneurial Perspective (ES 5100) 3
Legal Issues for the Entrepreneurial and Small Firm (ES 5200) 3
Entrepreneurial Strategic Planning (ES 5500) 3
Cases in Entrepreneurial Strategies (ES 5700) 3
Introduction to Computer Concepts (BA 6000) 3
Effective Public Speaking (SPE 2100) 3
General Psychology (PSY 1100) or Introduction to Sociology (SOC 3100) 3

§Consultation with the Department Advisor is required.

CE"$IFICA$EEINEE(E"CI#EE#CIENCEE/ !E"# NALE$"AINING

DEPARTMENT: Health, Physical Education and Recreation

$ $ALEC"EDI$#:E30

". :>2;. 6 .7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

If required:

ENG 400, 9100, 9200 and/or 9300 0
MAT M100 & M200 or MAT R300 proficiency 0

CERTIFICATE REQUIREMENTS §

Human Anatomy and Physiology I and II (BIO 1100 **and** BIO 1200) .....8 credits
The Science of Nutrition (BIO 7000) 3
Kinesiology of Exercise (EXS 1000) 3
Physiology of Exercise (EXS 1100) 3
Health Risk Appraisal (EXS 1200) 3
Fitness Assessment and Exercise Prescription (EXS 1300) 3
Muscular Fitness Training Techniques (EXS 1500) 3
Any PEC course (except PEC 00400, 500) 1
Cardiopulmonary Resuscitation (HE 2000) 1
First Aid and Personal Safety (HE 3500) 2

§ Consultation with the Department Advisor is required.

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DEPARTMENT: Tourism and Hospitality

$ $ALEC"EDI$#:E14

" . :>2;. 6 . 7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

CERTIFICATE REQUIREMENTS §

Fall Semester

Coastal Piloting and Seamanship (MT 4600) .....4 credits
Low Voltage Electrical Systems (MT 5400) 2
Marine Electronics (MT 5500) 2

Spring Semester

Vessel Technology I (MT 3300).....3
Vessel Technology II (MT 3400).....3

§Consultation with the Department Advisor is required.

CE"$IFICA$EEINEMA"INE MECHANIC

DEPARTMENT: Tourism and Hospitality

$ $ALEC"EDI$#:E24

" . :>2;. 6 . 7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

CERTIFICATE REQUIREMENTS §

Marine Operations (MT 4300).....3 credits
Introduction to Outboard Motors (MT 5000) 2
Introduction to Diesel Engines (MT 5100) 2
Welding (MT 5200) 2
Fiberglass and Hydraulic Repairs (MT 5300) 2
Low Voltage Electrical Systems (MT 5400) 2
Marine Electronics (MT 5500) 2
Advanced Outboards (MT 5600).....3
Vessel Systems (MT 5700) 3
Advanced Welding (MT 5800).....3

§Consultation with the Department Advisor is required.

CE"$IFICA$EEINEMEDICALE FFICE A##I#AN

DEPARTMENT: Business

$ $ALEC"EDI$#:E24

" . :>2;. 6 . 7=<E/8;EM*=;2,>5*7=<

COLLEGE REQUIREMENTS

Passing scores on the CUNY-wide in reading, writing, and math skills tests or developmental courses may be required.

CERTIFICATE REQUIREMENTS §

Keyboarding for Business Communications (TEC 1400).....2 credits
Office Communications Skills (ADM 3700).....3
Office Computer Applications I (TEC 2500) 3
Office Computer Applications II (TEC 2600) 3
Medical Terminology and Electronic Transcription (TEC 6100)....4
Medical Office Computer Applications (TEC 6200) 3
Medical Coding (TEC 8200) 3
Field Experience (ADM 9229).....4

§Consultation with the Department Advisor is required.

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3@;57TF3D>7K, P74+*8847

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A (*T6000TPT&AI$*I$GTIIT(4T5DE.T6T : DE.)

+TA (*T6100TPT)C+"&*+ (ETIT(3T5DE.T4T : DE.)

A (*T6200TPT)C+"&*+ (ETIIT(4T5DE.T6T : DE.)

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- ;>>;3 ? TBGD97D, P74+*8847

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)GE3@TC3DB7@F7D, A88.89&39?P74+*8847

G7D3>6;@7TC : 3B7K,TP74+*8847

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)GE3@TF3DD7>>, P74+*8847?&3)?C-&.75*7843

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&?H : 2&3?S*7;.(*8?P74 , 7&2

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)FG3DFT ! 7D ? 7E,TA88.89&39?P74+*8847

B7F : T ! ;@9, A88.89&39?P74+*8847

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)GL3@@7T"3FA@F,TP74+*8847

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E>>3T&G55;A, A88.89&39?P74+*8847

F>AD7@57T)5 : @7;67D,TA88.89&39?P74+*8847;?
D.7*(947,?E) : (&9.43?P74 , 7&2

A3@T)F3@6AD3, A88.89&39?P74+*8847,?D.7*(947,?A1(4-41.8 2?
&3)?S : '89&3(*?A' : 8*?C4 : 38*1.3 , ?P74 , 7&2

C : 3D>7ET) I ;8F, L*(9 : 7*7

&7FD3T)K ? ;EF7D,TA88.89&39?P74+*8847

D3H;6T*DAK,TA88.89&39?P74+*8847

3EA@T , 3@%D3, A88.89&39?P74+*8847

AE7B : T , 7D6;@A,TA88.89&39?P74+*8847

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G3@@T - 3FEA@, A88.89&39?P74+*8847

B3D43D3T - 7;E7D4E, A88.89&39?P74+*8847

- ;>>;3 ? T - ;@F7D, A884(.&9*?P74+*8847

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(3T5DE.T3T : DE.)

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EDCT9307TPT)+&E(,I)EDTI$)*(+C*I%$A"T
E.&E(IE$CETI$TED+CA*I%$TII (3T5DE.T6T:DE.)

F<?IECEI ! .7<?@I#;9F.

EDC 9400 PT)+&E(,I)EDTI$)*(+C*I%$A"
E.&E(IE$CETI$TIFA*/*%DD"E(TED+CA*I%$T
(3T5DE.T6T:AGDE)

H+#T8181TPTDE,E"%&#E$*T%FT"I*E(AC/TI$
CHI"D(E$T(1T5D.T1T:D.)

H+#T0200TEA("/T"I*E(AC/TA$DTCHI"D(E$N)
"I*E(A*+(E (2T5DE.T2T:AGDE)

AT

ED+T2500TPT*HETE#%*I%$A""/TDI)*+(BEDTA$D
$E+(%"%GICA""/TI#&AI(EDTCHI"DT(3T5DE.T3T:DE.)

ED+T2600TPT*EACHI$GT*HETE#%*I%$A""/TTT
DI)*+(BEDTADTE+(%"%GICA""/TI#&AI(ED
CHI"DT(3T5DE.T3T:DE.)

ED+T2700TPT)E#I$A(TI$TAD#I$I)*(A*I%$TA$D
)+&E(,I)I%$T%FT)&ECIA"TED+CA*I%$T&(%G(A#)
(3T5DE.T3T:DE.)

ED+T2800TPT*ECH$I'+E)TI$T#A*H,T)CIE$CE
A$D)%CIA"T)*+DIE)T*EACHI$GTF%(TEA("/
CHI"DH%%DTED+CA*I%$T(2T5DE.T2T:DE.)

*T#TED+T3400TPT)E#I$A(TA$DT&(AC*IC+#TI$
ED+CA*I%TADTBEHA,I%(A"T)CIE$CE)
(4T5DE.T12T:DE.)

*T#TED+T3500TPT)E#I$A(TA$DT&(AC*IC+#TI$
ED+CA*I%TADTC%##+$ICA*I%$T)!I"")
(4T5DE.T12T:DE.)

*T#TED+T3600TPT)E#I$A(TA$DT&(AC*IC+#TI$
ED+CA*I%TADTA(*TF%(#)T(4T5DE.T12T:DE.)

(2;I(10)I5<B?@I<3
3629 1D<?8I.ID228I6@I?2>B6?21.

+TED+T3700TPTHI)*%(ICA"TDE,E"%&#E$*T%F
ED+CA*I%TIT*HET+$I*EDT)*A*E)T(3T5DE.T3T:DE.)

ED+T4500TPT)IG$T"A$G+AGETI$T*HET
C"A))(%%#TIT(2T5DE.T2T:DE.)

ED+T4600TPT)IG$T"A$G+AGETI$T*HET
C"A))(%%#TIIT(2T5DE.T2T:DE.)

ED+T4700TPT)IG$T"A$G+AGETIIIT(2T5DE.T2T:DE.)

ED+T5000TPTED+CA*I%$A"T*ECH$%"%G/TF%(
&A(A&(%FE))I%$A")(3T5DE.T3T:DE.)

TA A T A A R

+T#HT1100TPTI$*(%D+C*I%$T*%TH+#A$T
)E(,ICE)T(3T5DE.T3T:DE.)

#=2;IA<I.99I@AB12;A@.

*T#HT3000TPTH+#A$T)E(,ICE)T%(GA$I0A*I%$
(3T5DE.T3T:DE.)

*T#HT3100TPT&(I$CI&"E)T%FTI$*E(,IE-IGTAD
G(%+&T"EADE()HI&T(3T5DE.T3T:DE.)

#=2;IA<I$?<4?.:
:.7<?@I<;9F.

*T#HT3400TPT#E$*A"THEA"*HT&(AC*ICET-I*HT
,+"$E(AB"ET&%&+"A*I%$)T(3T5DE.T3T:DE.)

#=2;IA<I$?<4?.:I:.7<?@I<;9F.I

+T#HT3500TPTI$*(%D+C*I%$T*%TGE(%$*%"%G/
(3T5DE.T4T:DE.)

#=2;IA<I.99
@AB12;A@.

+T#HT3700TPTI$*(%D+C*I%$T*%TD%#E)*IC
,I%"E$CETC%+$)E"I$G (3T5DE.T3T:DE.)

+T#HT3800TPTA))E))#E$*TA$D
I$*E(,E$*I%$T#%DA"I*IE)T-I*HTD%#E)*IC
,I%"E$CET)+(,I,%() (3T5DE.T3T:DE.)

#HT81..TPTI$DE&E$DE$*T)*+D/T
(1-3T5DE.T1-3T:DE.)

*T#HT9801TPT)+&E(,I)EDTI$)*(+C*I%$A"
E.&E(IE$CETI$T#E$*A"THEA"*HTIT(3T5DE.T6T:DE.)

*T#HT9802TPT)+&E(,I)EDTI$)*(+C*I%$A"
E.&E(IE$CETI$T#E$*A"THEA"*HTIIT(3T5DE.T6T:DE.)

+T&) / T1100TPTGE$E (A "T&) / CH%"%G / T
(3T5DE.T3T : DE.)

+T)%CT3100TPTI$*(%D+C*I%$T*%T)%CI%"%G/T
(3T5DE.T3T:DE.)

)%CT3200TPT+(BA$T)%CI%"%G/T(3T5DE.T3T:DE.)

)%CT3300TPT)%CIA"T&(%B"E#):TI$)*I*+*I%$)
I$TC(I)I)T(3T5DE.T3T:DE.)

)%CT3500TPT)%CI%"%G/T%FT*HETFA#I"/
(3T5DE.T3T:DE.)

)%CT3600TPT#I$%(I*/TG(%+&)TI$T*HET+$I*ED
)*A*E)T(3T5DE.T3T:DE.)

)%CT3800TPT)%CI%"%G/T%FTGE$DE(T
(3T5DE.T3T:DE.)

)ACT2200TPTC%+$)E"I$GT*ECH$I'+E)TI$T
)+B)*A$CE AB+)ETFIE"DTIT(3T5DE.T3T:DE.)

A ART T

(AA ?T)-244TOT7JF.T5502

A : @TA57H76A,TS*3.47?C411* , *?L&'47&947>?T*(-3.(.&3

C3D>3TB7747D,TA884(.&9*?P74+*8847

IE3;3 : TA.TB7@3F : 7@, P74+*8847;?C447).3&947,?P->8.(.&3
A88.89&39?T7&38+*7?O59.43

"AD7FF3TBD3@5355;AT*3D3E, P74+*8847?&3)?C-&.75*7843

, ;5FADTBDA67D, C411* , *?L&'47&947>?T*(-3.(.&3

EG>3>77TC3 ? 4D;697, C411* , *?L&'47&947>?T*(-3.(.&3

C : D;EF;@3T&3G>7FF7TCA>A@, A88.89&39?P74+*8847

3DKTD3 I EA@, A884(.&9*?P74+*8847

) : 7DDK7TG>3E7D, A88.89&39?P74+*8847

CD3;9TH;@=>7K, A88.89&39?P74+*8847

IH3@T) : G@THA, A88.89&39?P74+*8847

0. # .G.T)3D I 3DT 3 : 3@9;D, A88.89&39?P74+*8847

& : ;>>;BT AE7B : , C411* , *?L&'47&947>?T*(-3.(.&3

;D;3 ?T ! ;FFD7>>, P74+*8847

A : 3 ? 76T"3=D; ? , A884(.&9*?P74+*8847

G7AD9;3T";@6, A884(.&9*?P74+*8847

A : @T"AB7L, L*(9 : 7*7

3D;7T # 5GAH7D@,TA88.89&39?P74+*8847

C : D;EF;@3T # 5 , 7K, A88.89&39?P74+*8847;?C4-D.7*(947,?P->8.(&1
T-*7&5.89?A88.89&39?P74 , 7&2?

E>;L347F : T # G>>;93@, A88.89&39?P74+*8847

3D;3T$AD3=A, C411* , *?L&'47&947>?T*(-3.(.&3

3DKT* : 7D7E3T%DF;L, P74+*8847

$3H@77FT&3D ? 3D, L*(9 : 7*7

! D;EF;@T&.T&A>;LLAFFA, A884(.&9*?P74+*8847

A@@3T(AL7@4AK ? , A88.89&39?P74+*8847

)F7H7@T)=;@@7D, A884(.&9*?P74+*8847;?C4-D.7*(947,?P->8.(&1
T-*7&5.89?A88.89&39?P74 , 7&2

A@F : 73T # .T)F3HDAG>3=;E, P74+*8847

F3DE : 36T*3 ? 3D;, A88.89&39?P74+*8847

A>;5;3T*DGEF, C411* , *?L&'47&947>?T*(-3.(.&3

+TBI%T2500TPTI$*(%D+C*I%$T*%T#A(I$E
BI%"%G/ (3T5DE.T3T:DE.)

"<AI<=2;IA<IB6<9<4FI:.7<?@.?(56@I0<B?@2I1<2@I;<A

BI%T5100TPT # IC (%BI%"%G / TI $THEA "*HTA $DT
DI) EA) ET(4T5DE.T6T : DE.)
F<?I@AB12 ; A@I=?2= . ?6 ; 4I3<?I " B?@6 ; 4,I$5F@6O6 . ; H@
A@@6@A . ; AI . ; 1I<A52?I . 996219152 . 9A5I@O62 ; 02@I< ; 9F.

(56@I0<B?@2I1<2@I ; <A @ . A6@3FIA52IB6<9<4F
: . 7<?I2920A6C2I?2>B6?2 : 2 ; A.

" B?@6 ; 4I@AB12 ; A@I : B@AIA . 82IBI#I5100 / 23<?2I<?ID6A5
") &I2100.

BI%T5200TPT # A (I $ETBI%"%G / T(4T5DE.T6T : DE.)

(56@I0<B?@2I@ . A6@362@IA52I2920A6C2
O?216AI?2>B6?2 : 2 ; AI3<?IB6<9<4FI : . 7<?@.

BI%T5300TPTEC%"%G / T(4T5DE.T6T : DE.)

(56@I0<B?@2I@ . A6@362@IA52
2920A6C2IO?216AI?2>B6?2 : 2 ; AI3<?IB6<9<4FI : . 7<?@.

BI%T5400TPTB%*A $ / T(4T5DE.T6T : DE.)

(56@I0<B?@2I@ . A6@362@IA52I2920A6C2IO?216A

BI%T5900TPTGE$E*IC)T(4T5DE.T6T:DE.)

BI%T6400TP (E)EA(CHT#E*H%D)TF%(
$+*(I*I%$T)CIE$CE (1T5DE.T2T:DE.)

(56@I0<B?@2I@.A6@362@IA52
2920A6C2I0?216AI?2>B6?2:2;AI3<?IB6<9<4FI:.7<?@.

BI%T6500TP #%"EC+"A(TA$DTCE""+"A(BI%"%G/
(3T5DE.,T6T:DE.TPT3T:DET>75FGD7,T3T:DE.T>34)

BI%/CI)T6000TPTC%#&+*E(TA&&"ICA*I%$)TI$
BI%I$F%(#A*IC) (3T5DE.,T4T:DETPT2T:DE.T>75FGD7,T
2T:DE.T>34)

BI%T6100TPT(E)EA(CHT#E*H%D)T(2T5DE.T2T:DE.)

BI%T6200TPTBI%"%GICA"TI$)*(+#E$*A*I%$T
(2T5DE.T3T:DE.)

BI%T82 . . TPT(1-3T5DE.T1-3T : DE.)

(5 6@I0<B?@2I1<2@I ; <A @ . A6@3FIA52IB6<9<4F
: . 7<?I2920A6C2I?2>B6?2 : 2 ; A.

BI%/ # A*T9100TPTBI%) *A*I) *IC) T(4T5DE.T4T : DE.)

) CIT0100TPTI)) +E) TA $DTAD , E$ * + (E) TI $
) CIE $CET(3T5DE.T3T : DE.)

A T RA T A TA T

&* AT100TPTF%+ $DA*I%$) T%FT&H /) ICA"
*HE (A& / T(3T5DE.T5T : DE.)

&*AT800TPT)E"EC*EDT*%&IC)TI$T&H/)ICA"
*HE(A&/T(5T5DE.T8T:DE.)

&*AT900TPTC"I$ICA"T&(AC*IC+#TIIT(3T5DE.T35T:DE.)

ART T

ACCT2100TPTI$*E(#EDIA*ETACC%+$*I$GTI
(3T5DE.T3T:DE.)

(AA?T#-35559 G:8DC8>A>6Q=:5 I L<:C:G6A[A:9D(]) - 41(J) - 8.236 0 I1J68(23G 252 640.85 efBT 1 0.73 0.1 01C5 0 0 12.53@

ACCT2200TPTI$*E(#EDIA*ETACC%+$*I$GTII
(3T5DE.T3T:DE.)

ACCT3100TPTC%)*TACC%+$*I$GT(4T5DE.T4T:DE.)

+ACCT4100TPTFEDE(A"T*A.A*I%$T(4T5DE.T4T:DE.)

ACCT6000TPT#IC(%C%#&+*E(TACC%+$*I$G
A&&"ICA*I%$) (3T5DE.T3T:DE.)

ACCT7000TPTFIACIA"TI$, E) *IGA*I%$
(2T5DE.T2T : DE.)

ACCT81 . . TPTI$DE&E$DE$*T) * +D / T
(1-3T5DE.T1-3T : DE.)

ACCT82 . . TPT(1-3T5DE.T1-3T : DE.)

A TRAT

+TAD # T1500TPTG (EGGT) H% (*HA $ DT
(E"E # E$*A (/)T(3T5DE.T4T : DE.)

AD#T81. .TPTI$DE&E$DE$*T)*+D/T(1-3T5DE.T1-3T:DE.)

AD#T82. .TPT(1-3T5DE.T1-3T:DE.)

AD#T9229TPTFIE"DTE.&E(IE$CET(3T5DE.T9T:DE.)

A TRAT

BAT1000TPTB+)I$E))TAD#I$I)*(A*I%$:
I$*(%D+C*I%$T*%TB+)I$E))T(3T5DE.T3T:DE.)

BAT6100TPT)&(EAD)HEE*TA&&"ICA*I%$)TI$
B+)I$E))T(3T5DE.T3T:DE.)

"#(E:IEC#"#!IC'IC#)&'E'I!EE(IG&#)$IIIII#&
BIGE"E&A IED)CA(I#"I&E%)I&E!E"('IE,CE$(
EC#I1400.II

EC#I1200IA"DIEC#I01400ID# "#(!EE(I(HE

BAT7700TPTB+)I$E))TI#AGE)TI$T*HET#EDIA
(35DE.T3T:DE)

BAT81..TPTI$DE&E$DE$*T)*+D/T(1-3T5DE.T1-3T:DE.)

BAT82..TPT(1-3T5DE.T1-3T:DE.)

BAT9229TPTFIE"DTE.&E(IE$CETI$TB+)I$E))
AD#I$I)*(A*I%$ (T3T5D76;FE,T9T:AGDET-T
I;F:T3T?;@;?G?TA8T8T:AGDETA8T8;7>6T I AD=)

(56@I0<B?@2I6@I<;9FI<=2;IA<IBB@6;2@@
A1:6;6@A?.A6<;I:.7<?@.II"#(E: BAI9229I:B@AI/2
A.82;I6;I%2BI<3IBAI5200I3<?IA.A.'.IBB@6;2@@
A1:6;6@A?.A6<;I@AB12;A@ID6A5IG.$A.I>I=I3.0

TR R R A T A

+E)T5100TPT) # A""TB+)I$E))TA$DT*HE
E$*(E&(E$E+(IA"T&E()&EC*I,ET(3T5DE.T3 :DE.)

FDT1100TPTFA)HI%$T)!E*CHI$GTF%(TFA)HI%$
DE)IG$E()T(3T5DE.T3T:DE.)

+TE)T5200TPT"EGA"TI))+E)TF%(T*HE
E$*(E&(E$E+(IA"TA$DT)#A""TFI(#T(3T5DE.T3T:DE.)

E)T5500TPTE$*(E&(E$E+(IA"T)*(A*EGIC
&"A$$I$GT(3T5DE.T3T:DE.)

E)T5700TPTCA)E)TITE*(E&(E$E+(IA"
)*(A*EGIE)T(3T5DE.T3T:DE.)

FDT2300TPTDE)IG$T*(E$D)TA$DTAE)*HE*IC)
(3T5DE.T3T:DE.)

FDT9200TPTFIE"DTE.&E(IE$CETI$TFA)HI%$
DE)IG$T(1T5>3EET:AGD,T8T;@F7D@E:;BT:AGDET?;@;?G?)

#=2;I<;9FIA<I@2920A
F.@56<;ID2@64;I:.7<?@ID6A5I.IG$AI<3I3.0I<?I56452?.

R TA R A

+T(#T3000TPTC%$)+#E(TBEHA,I%(T(3T5DE.T3T:DE.)

C<B?@2
1<2@I;<A 3B93699IG2;2?.9IE1B0.A6<;I&2>B6?2:2;A@.

+T(#T3100TPTE"E#E$*)T%FT(E*AI"T#A$AGE#E$*
(3T5DE.T3T:DE.)

+T(#T3300TPT)A"E)#A$)HI&T(3T5DE.T3T:DE.)

*ECT6200TPT#EDICA"T%FFICETC%#&+*E(
A&&"ICA*I%$)T(3T5DE.T3T:DE.)

A.A.'.ID24?22:IACC#)"(I"GI

&2>B6?21I3<?I.99I!2160.9
#33602IA1:6;6@A?.A6<;I!.7<?@.

A.A.'.ID24?22:IB)'I"E''IAD!I"I'(&A(I#"

ECT7000TPT,I(+A"TE$*E(&(I)ET(3T5DE.T3T:DE.)

A.A.'.ID24?22:IFA'HI#"IDE'IG"

*ECT81..TPTI$DE&E$DE$*T)*+D/T(1-3T5DE.T1-3T:DE.)

A.A.'.ID24?22:I#FFICEIAD!I"I'(&A(I#"I&I(ECH"# #G-

*ECT8200TPT#EDICA"TC%DI$G(3T5D.T4T:D.)

A.A.'.ID24?22:I&E(AI I!E&CHA"DI'I"G

*ECT9101TPT&(%FE))I%$A"T&%(*F%"I%
DE,E"%&#E$*T(1T5D.T1T:D.)

A.A.'.ID24?22:I+EB'I(EIDE*E #$!E"(I&IAD!I"I'(&A(I#"

C2?A6360.A2:IE"(&E$&E"E)&IA I'()DIE'

C2?A6360.A2:I!EDICA I#FFICEIA''I'(A"(

AT A R R

ART ART T

(AA ? TE-309TOT7JF.T.T5591

A : @TA5AEF3, A88.89&39?P74+*8847

)5AFFTC3>>K, A88.89&39?P74+*8847

D3H;6TCAEF7>>A,TL*(9:7*7

GD79ADKTF>7F5:7D, A884(.&9*?P74+*8847

C;@6KTGD77@47D9,TP74+*8847

(A47DFTH7D=>AFL,TC-.*+?C411*,*?L&'47&947>?T*(-3.(.&3

(K3@T#5!;@@7K, A88.89&39?P74+*8847

#3GD77@T#;@;7>>;, A88.89&39?P74+*8847

G>AD;3T$;5AE;3,TP74+*8847?&3)?C-&.75*7843

E6 I 3D6T(A:D>;5:, S*3.47?C411*,*?L&'47&947>?T*(-3.(.&3

AD@A>6T(AE@7D, A884(.&9*?P74+*8847

-7@6KT)5:3FL?3@-):7DDK, L*(9:7*7

";>;T):;,TA88.89&39?P74+*8847

)3?G7>T*3;FF,TA88.89&39?P74+*8847

C:;LA43T+67AD<;, A88.89&39?P74+*8847

#3DH;@T-;>>;3?E, L*(9:7*7

GAD6A@T/AG@9,TA884(.&9*?P74+*8847

A AT

A""T#CFTC%+()E)TA$DT#C#T03000TF+"FI""G(%+&TIT%(TG(%+&TATGE$E(A"TED+CA*I%$(E'+I(E#E$*)TF%(TA""TDEG(EE).

+T#CBT3400TPTAD,E(*I)IGTITE"EC*(%$IC#EDIA (3T5DE.T3T:DE.)

+T#CBT3600TPTA$$%+CIGTPT(AD>%TA$D*E"E,I)I%$T(3T5DE.T3T:DE.)

#CBT3700TPT-(I*I$G,TDI(EC*I$GTA$D&E(F%(#I$GT*,T$E-) (3T5DE.T3T:DE.)

+T # CBT4100TPTI$*(%D+C*I%$T*%T*E"E,I)I%$
&(%D+C*I%$T(3T5DE.T3T:DE.)

CBT4600TPT # EDIAT*ECH$%"%G/ (2T5DE.T2T:DE.)

(5&@I&@I.
?2>B&?21I0<B?@2I3<?I.99IB?<.10.@AI: .7<?@.

CBT4800TPTAD,A$CEDT,IDE%T&(%D+C*I%$
(3T5DE.T3T:DE.)

CBT4900TPTDIGI*A"TA+DI%/,I)+A" &(%D+C*I%$
A$DTEDI*I$G (3T5DE.T5T:DE.T/T1T:DT>75FGD7,T
4T:DE.T>34/I77=)

CBT5000TPT - (I*I$GTF%(T*HETE"EC*(%$IC
EDIAT(3T5DE.T3T:DE.)

CBT5100TPTDIGI*A"T,IDE%/A+DI%
&(%D+C*I%TADTEDI*I$GTII
(3T5DE.T5T:DE.T/T1T:DT>75FGD7,T4T:DE.T>34/I77=)

R R ART

+) ICTC%+ ( ) E) TF (% # T # +) T2100T*%T # +) T2700 A$DT # +) T3100T # EE*TG (%+&TIT% (TG (%+&TA GE$E (A"TED+CA*I%$ (E ' +I (E # E$*) TF% (TA"" DEG (EE) .T) *+DI%TC%+ ( ) E) TI$C"+DI$GT3000, 4800,T9121T*H (%+GHT96A5T # EE*TG (%+&TIT% (G (%+&TATGE$E (A"TED+CA*I%$ (E ' +I (E # E$*) F% (T"IBE (A"TA (*) T(A.A.TDEG (EE)T%$" / .

+T # +) T2100TPTI$* (%D+C*I%$T*%T A00T(3T5DE.T3T : DE.)

+T # +) T2200TPT # +) ICT%FT*HET* - E$*IE*HT CE$*+ (/ T(3T5DE.T3T : DE.)

+T # +) T2400TPT%&E (AT(3T5DE.T3T : DE.)

+T # +) T2700TPT # +) ICT%FT*HET - % ("DN) T&E%&"E (3T5DE.T3T : DE.)

+T # +) T3000TPT (+DI # E$*) T%FT*HE% (/ T(3T5DE.T3T : DE.)

+T # +) T3100TPT*HET # +) ICA"TE . &E (IE$CE (3T5DE.T3T : DE.)

+) T4800TPT # +) ICT*HE% (/ /EA (T* (AIIG (3T5DE.T3T : DE.)

+T)&ET1200TPTI$*E(&E()%$A"TC%# #+$ICA*I%$
(3T5DE.T3T:DE.)

+T)&ET2100TPTEFFEC*I,ET&+B"ICT)&EA!I$G
(3T5DE.T3T:DE.)

+T)&ET2300TPT&(%$+$CIA*I%$T)!I""TF%(
E)"T)*+DE$*)T(3T5DE.T3T:DE.)

+T)&ET2400TPTCA(EE(TC%# #+$ICA*I%$
(3T5DE.T3T:DE.)

)&ET2500TPT)#A""TG(%+&TC%# #+$ICA*I%$
(3T5DE.T3T:DE.)

)&ET2600TP I$*E(C+"*+(A"TC%# #+$ICA*I%$
(3T5DE.T3T:DE.)

)&ET2700TPT%(A"TI$*E(&(E*A*I%$T(3T5DE.T3T:DE.)

)&ET2800TPT"A$G+AGETA$DT)&EECHTF%(TE)"
)*+DE$*)T(3T5DE.T3T:DE.)

+T)&ET2900TPT,%ICETA$DTA(*IC+"A*I%$T
(3T5DE.T3T:DE.)

)&ET4000TPT&H%$E*IC)T(3T5DE.T3T:DE.)

#=2;IA<I'=2205
C<::B;60.A6<;I:.7<?@I<;9F.

)&ET4100TPT"A$G+AGETDE,E"%&#E$*T
(4T5DE.T4T:DE.)

#=2;IA<I'=2205
C<::B;60.A6<;I:.7<?@I<;9F.

)&ET81 . . TPTI$DE&E$DE$*T)*+D/T(1-3T5DE.T1-3T:DE.)

)&ET82 . . TPT(1-3T5DE.T1-3T:DE.)

T ATR

HEA(ETC%+()E)T*HAT5000,T5100,T6700,T3@6
6800 #EE*TG(%+&TIT%(TG(%+&TATGE$E(A"
ED+CA*I%$ (E'+I(E#E$*)TF%(TA""
DEG(EE). *HATC%+()E)T5200TA$DT5300
#EE*TGE$E(A"TED+CA*I%$ (E'+I(E#E$*)
F%(T"IBE(A"TA(*)T(A.A.TDEG(EE)T%$"/.

*T*HAT4600TPT*(AIIGT*HET&E(F%(#I$GT,%ICE
(3T5DE.T3T:DE.)

HAT5000TPTI$*(%D+C*I%$T%T*HEA*(ETA(*)
(3T5DE.T3T:DE.)

+T*HAT5100TPT&"A/TA$A"/)I)T(3T5DE.T3T:DE.)

*T*HAT6300TPTBA)ICT)%+$DT*ECH$%"%G/
(3T5DE.T3T:DE.)

ART T

(AA ? TC-309TOT7JF.TT5849

A@F : A@KTC.TA>7EE3@6D;@;, A884(.&9*?P74+*8847

)F7H7@TA ? 3D@;5=, A884(.&9*?P74+*8847

)F7B : 7@TAD ? EFDA@9, A88.89&39?P74+*8847

)K>H;3@7TB3G ? 8>7=,TL*(9:7*7

(A47DFTB>3;E67>», P74+*8847

35CG7>;@7TBD36K, A88.89&39?P74+*8847

"7E>7KTBDA67D, A88.89&39?P74+*8847

";L3TBDG@3, L*(9:7*7

(A47DFTCA I 3@,TA884(.&9*?P74+*8847

3DF : 3TC>3D=TCG ? ? ;@9E, A88.89&39?P74+*8847

A@@TD7>T&D;@5;B7, A88.89&39?P74+*8847

E>;L347F : TD;>>, A884(.&9*?P74+*8847

3GD77@TF367 ? , A88.89&39?P74+*8847

E;>77@TF7DD7FF;, A884(.&9*?P74+*8847?&3)?C-&.75*7843

A@;53TF;>; ? A@, A88.89&39?P74+*8847

H73F : 7DTF;@@, A88.89&39?P74+*8847

"73TFD;6 ? 3@, P74+*8847

! 3F7TG3DD7FEA@, A884(.&9*?P74+*8847

3FF : 7 I TG3DF@7D,TA884(.&9*?P74+*8847

! 3D>7@7TGAA6;@9,TL*(9:7*7

3@;@7TGD3L;3@A-! ;@9,TP74+*8847

";@63THA> ? 3@, A88.89&39?P74+*8847

(35 : 7>TI : 3D3, A88.89&39?P74+*8847

G34D;7>>7T ! 3 : @, A88.89&39?P74+*8847

! 7H;@T ! A>= ? 7K7D, L*(9:7*7

* : A ? 3ET"3H3LL;, P74+*8847

(A@@3T"7HK, A88.89&39?P74+*8847

$3F3E : 3T"HAH;5 : ,TP74+*8847

G7@7T # 5 ' G;>>3@, P74+*8847

$AD ? 3T # ;>7E, A88.89&39?P74+*8847

3DKT"K@@T$3H3DDA, A88.89&39?P74+*8847

! 3D7@T$;>7E, L*(9:7*7

HAB7TA.T&3D;E;,TA884(.&9*?P74+*8847

FD3@=T&7D5355;A, A88.89&39?P74+*8847

C : D;EF;@7T(G6;E7>, A88.89&39?P74+*8847

E ? ;>KT)5 : @77, A88.89&39?P74+*8847

3D;3T)5AD63D3E, A88.89&39?P74+*8847

(A47DFT);@97D, P74+*8847

C : 7DK>T) ? ;F : ,#A884(.&9*?P74+*8847

B3;>;@T)A@9,#P74+*8847

E@;6T)FG4;@,TA884(.&9*?P74+*8847

G>;7T*ADD3@F,#A88.89&39?P74+*8847

*;E : 3T+> ? 7D,#A88.89&39?P74+*8847

CA@57FF3T , ;@5;9G7DD3-%DE;@;,#A88.89&39?P74+*8847

5B- 3E : 4GD@,T A88.89&39?P74+*8847

) : 7D;T - 7;@EF7;@,#A884(.&9*?P74+*8847

3@7T# A88.89&39?P74+*8847#

TA

#TMT+TE$GT400TPTA$A" / *ICA"T(EADI$G
(0T5DE.T4T : DE.TPT4T7CG3F76T5DE.)

R A R T

MTE$GT(00TPT&(E&A(A*I%$TF%(TC+$ / T
(EADI$GT*E)*T@T(0T5DE.T2T : DE.TPT2T7CG3F76T5DE.)

R T

#TMTE$GT91A5TPTDE , E"%&I$GTF"+EC / TI
(EADIGTADT - (I*I$GT
(0T5DE.T8T : DE.TPT8T7CG3F76T5DE.)

#TMTE$GT92A6TPTDE , E"%&I$GTC% # &E*E$CETI$
(EADIGTADT - (I*I$GT(0T5DE.T8T : DE.TPT8T7CG3F76T5DE.)

R A

MTE$GT93A9TPTDE , E"%&I$GTC% # &E*E$CETI$
- (I*I$GT(0T5DE.T4T : DE.TPT4T7CG3F76T5DE.)

MTE$GT - 00TPT&(E&A(A*I%$TF%(TC+$/T - (I*I$G
*E)*T@T(0T5DE.T2T:DE.TPT2T7CG3F76T5DE.)

#TMTE)"T700TPTBA)ICT(EADIGTADT - (I*I$GTF%(
)*+DE$*)T"EA($IGTEG"I)HTA)TAT)EC%$D
"A$G+AGETT(0T5DE.T10T:DE.TPT10T7CG3F76T5DE.)

+T@TE$GT4400TPT*HET*(AGICT,I)I%$T(3T5DE.T3T:DE.)

+T@TE$GT4500TPT*HETC%#ICT)&I(I*T(3T5DE.T3T:DE.)

E$GT4800TPTA#E(ICA$TE$,I(%$#E$*A"
"I*E(A*+(E(3T5DE.T3T:DE.)

"&1)*3 &3)?C4:39>
A12&3&(S.1*39?S43,

E$GT5500TP C+"*+(A"/"I$G+I)*ICTA)&EC*)T%F
*EACHI$GT"A$G+AGE(3T5DE.T3T:DE.)

@TE$GT5600TPTC(EA*I,ET-(I*I$G:TFIC*I%$
(3T5DE.T3T:DE.)

C<B?@2I1<2@I;<A @.A6@3FIG?<B=IA
G2;2?.9IE1B0.A6<;I 6A2?.AB?2I?2>B6?2:2;A.

@TE$GT5700TPTC(EA*I,ET-(I*I$G:T&%E*(/
(3T5DE.T3T:DE.)

C<B?@2I1<2@I;<A @.A6@3FIG?<B=IAIG2;2?.9IE1B0.A6<;
6A2?.AB?2I?2>B6?2:2;A.

+T@TE$GT6300TPT)HA!E)&EA(ET(3T5DE.T3T:DE.)

+T@TE$GT6400TPTAD,E$*+(ET"I*E(A*+(ET
(3T5DE.T3T:DE.)

+T@TE$GT6500TPT"I*E(A*+(ETA$DTFI"#
(3T5DE.T3T:DE.)

+T@TE$GT6600TPT"I*E(A*+(ETA$DTH+#A$
BEHA,I%(T(3T5DE.T3T:DE.)

+T@TE$GT6700TPT-%#E$TA$DT"I*E(A*+(E
(3T5DE.T3T:DE.)

+T@TE$GT6800TPTG%*HICTA$DTH%((%(TFIC*I%$
(3T5DE.T3T:DE.)

+T@TE$GT7700TPT*HET(%%*)T%FTAF(ICA$-
A#E(ICA$T"I*E(A*+(ET(3T5DE.T3T:DE.)

+T@TE$GT7800TPTC%$*E#&%(A(/TAF(ICA$-
A#E(ICA$ "I*E(A*+(ET(3T5DE.T3T:DE.)

E$GT81..TPTI$DE&EDE*T)*+D/T(1-3T5DE.T1-3T:DE.)

E$GT82..TPT(1-3T5DE.T1-3T:DE.)

MTE)"TB - 100TPTF%+$DA*I%$)TF%(TC%""EGE-"E,E"
(EADIGTADT - (I*I$GTF%(TE)"T)*+DE$*),T1
(0T5DE.T4T:DE.)

MTE)"TB - 200TPTF%+$DA*I%$)TF%(TC%""EGE-"E,E"
(EADIGTADT - (I*I$GTF%(TE)"T)*+DE$*),T2
(0T5DE.T4T:DE.)

MTE$GTB - 00:TF%+$DA*I%$)TF%(TC%""EGE-"E,E"
- (I*I$GT(0T5DE.T4T:DE.)

MTE$GT - 100TPTI$*E$)I,ET - (I*I$GT1T(0T5DE.T2T:DE.)

MTE$GT - 200TPTI$*E$)I,ET - (I*I$GT2T(0T5DE.T2T:DE.)

R A

+T ("T3100TPTBA)ICT %+($A"I)#T(3T5DE.T3T:DE.)

("T3200TPTAD,A$CEDT %+($A"I)#T(3T5DE.T3T:DE.)

("T4400TPTFEA*+(ETA$DT#AGA0I$ET - (I*I$G
(3T5DE.T3T:DE.)

+TF(T300TPTI$*E(#EDIA*ETF(E$CHTIT(3T5DE.T3T:DE.)

+T)&AT1700TPTI$*E$)I,ET(E,IE-T%FT)&A$I)H
G(A##A(T(3T5DE.T4T:DE.TPT1T7CG3F76T5D.)

+T)&AT1800TPT&(%&E(T#%DE")T%FT)&A$I)H
G(A##A(TA$DTC%$,E()A*I%$TF%(T$A*I,E
)&EA!E()T(3T5DE.T3T:DE.)

+T)&AT2200TPTE"E#E$*A(/T)&A$I)H
C%$,E()A*I%$T(3T5DE.T3T:DE.)

+T)&AT3000TPT(EADI$G)TI$T&EI)+"A(T)&A$I)H
"I*E(A*+(ETI$T*(A$)"A*I%$T(3T5DE.T3T:DE.)

+T)&AT3100TPT(EADI$G)T;@T)&A$I)HPA#E(ICA$
"I*E(A*+(ETI$T*(A$)"A*I%$T(3T5DE.T3T:DE.)

#=2;IA<I.99I@AB12;A@.

+T)&AT3300TPTI$*E(#EDIA*ET)&A$I)H
C%$,E()A*I%$T(3T5DE.T3T:DE.)

+T)&AT3400TPT)&A$I)HTA#E(ICA:TC+"*+(E,TA(*
A$DT#+)ICT(3T5DE.T3T:DE.)

I;@A?B0A6<;I6@I6;I/<A5I'=.;6@5I.;1IE;4%6@5.

+T)&AT3500TPT*HETC%$*E#&%(A(/T"A*I$
A#E(ICA$T)H%(*T)*%(/T(3T5DE.T3T:DE.)

+T)&AT3600TPT)&A$I)HT)/$*A.TA$DT
C%#&%)I*I%$T(3T5DE.T3T:DE.)

)&AT4400TPTAD,A$CEDT)&A$I)HTC%$,E()A*I%$
(3T5DE.T3T:DE.)

)&AT5300TPT)&A$I)H-A#E(ICA$T"I*E(A*+(E
(3T5DE.T3T:DE.)

I;@A?B0A6<;I6@I6;I'=.;6@5.

)&AT5500TPTHI)*%(/TA$DTCI,I"I0A*I%$T%F
)&AI$T(3T5DE.T3T:DE.)

I;@A?B0A6<;I6@I6;I'=.;6@5I.;1
E;4%6@5.

)&AT7000TPT)&A$I)HTCI$E#AT(3T5DE.T3T:DE.)

D<2@I;<A

)&AT7100TPT&+E(*%T(ICA$TF%"!"%(ET
(3T5DE.T3T:DE.)

)&AT7400TPT"A*I$TA#E(ICA$TCI$E#AT
(3T5DE.T3T:DE.)

D<2@I;<A :22AIG?<B=IIII<?IAIG2;2?.9IE1B0.A6<;
?2>B6?2:2;A.

)&AT81..TPTI$DE&E$DE$*T)*+D/T(1-3T5DE.T1-3T:DE.)

)&AT82..TPT(1-3T5DE.T1-3T:DE.)

/DT3000TPT/IDDI)HT"I*E(A*+(ETI$T
*(A$)"A*I%$T(3T5DE.T3T:DE.)

/DT82..T(1-3T5DE.T1-3T:DE)

A T A AT A R R AT ART T

(AA?TG-201TOT7JF.T.T5696

(747553TAD>;EE, P74+*8847,?C4-D.7*(947,?C42 2:3.9>?H*&19-?P74,7&2

#;5:7>7TBD355A, L*(9:7*7

H7D?3@TC:3D>7E,TA88.89&39?P74+*8847

C:D;EF;@7TF7K, L*(9:7*7,?D.7*(947?4+?E=*7(.8*?S(.*3(*/
P*7843&1?T7&.3.3,

G3@TFD3@CG;L, L*(9:7*7

(A@3>6TG7DI;@, P74+*8847

-3>F7DTH3@G>3, C411*,*?L&'47&947>?T*(-3.(.&3

DA@3>6THG?7, A884(.&9*?P74+*8847?&3)?C-&.75*7843

D3H;6T"3IEA@, C411*,*?L&'47&947>?T*(-3.(.&3

G3;>T(.T"7H;@7,TA884(.&9*?P74+*8847

AE7T$3@;@, A884(.&9*?P74+*8847,?C4-D.7*(947,?
C42 2:3.9>?H*&19-?P74,7&2

"AG;ET):AD, A88.89&39?P74+*8847

$;5:A>3ET)=;D=3, P74+*8847,?C4-D.7*(947,?P->8.(&1?E):(&9.43,
R*(7*&9.43?&3)?R*(7*&9.43?T-*7&5>

);>H73T*:A?3E, P74+*8847

T A T

+TC%HT1100TPTI$*(%D+C*I%$T*%TC%##+$I*/
HEA"*HT)E(,ICE)T(3T5DE.T3T:DE)

+TC%HT1200TPTC(I*ICA"TI))+E)TI$TC%##+$I*/
HEA"*HT(3T5DE.T3T:DE.)

+TC%HT1300TPTE&IDE#I%"%G/T(3T5DE.T3T:DE.)

+TC%HT1400TPT&(I$CI&"E)T%FTC%##+$I*/
HEA"*HTED+CA*I%$ (3T5DE.T3T:DE.)

C%HT2000TPTC%# # +$I*/THEA"*H
I$*E(,E$*I%$) (3T5DE.T3T:DE.)

C%HT91E1TPTFIE"DTE.&E(IE$CETI$TC%# # +$I*/
HEA"*HT(3T5DE.T1T5>3EET:AGDTB>GET100T8;7>6T:AGDE)

+THET2000TPTC% # # + $I* / TC& (T(1T5D.T1T : D.)

HET2100TPTE # E (GE$C / TCA (DIACTCA (ET(1T5D.T1T : D.)

+THET3300TPT) * (E)) T # A $ AGE # E$ *T(2T5DE.T2T : DE.)

HET3400TPT) + (, E / T%FTH%"I) *ICTHEA" *HTCA (E
(2T5DE.T2T : DE.)

+THET3500TPTFI ( ) *TAIDTA $ DT&E ( ) %$ A"T) AFE* /
(2T5DE.T2T : DE.)

HET3800TPT - % # E$N)THEA" *HTI)) +E) T(3T5DE.T3T : DE.)

5 - 11 (50G4) 0 >1 (5 - 11 (50>4) 0 0) 0 C550×456 I:E16(50G4) 0 : 1165 - 11 (50>4) 0 0 5 – 91 650÷116Tf . 001 (T) - 2 (5d8) E9 (50

+T&ECT500TPTB%D / TB+I"DI$GT(1T5D.T2T : DE.)

+T&ECT600TPT&H /) I%"%GICA"TFI* $E)) TA $D
DE , E"%& # E$ *:T* (AIIGT - I*HT - EIGH*) T
(2T5DE.T3T : DE.)

+&ECT3800TPT # %DE ($TDA $CET*ECH$I ' +E)
(1T5D.T2T : DE.)

+&ECT3900TPT # %DE ($TDA $CETC% # &%) I*I%$T
(1T5D.T2T : DE.)

+T&ECT4000TPT&H /) ICA "TED+CA*I%$TF% (
A*+ (ETAD+"*)T(1T5D.T2T : DE.)

&ECT4100TPTI$*E (# EDIA*ET) - I # # I$GT(1T5D.T2T : DE.)

&ECT4400TPT*E$ $I) T2T(1T5D.T2T : DE.)

&ECT4500TPT*E$ $I) T4T(1T5D.T2T : DE.)

&ECT5600TPT&I"A*E)T) /) *E # T%FTE . E (CI) E
(1T5D.T2T : DE.)

+T&E#T700TPT)%CCE(T*ECH$I'+E)T(F3>>)

(&ET3400TPT#E*H%D)TA$DT#A*E(IA")TI$TA(*)
A$DTC(AF*)T(3T5DE.T3T:DE.)

(&ET3500TPT*HE(A&E+*ICT(EC(EA*I%$TF%(
I$DI,ID+A")T-I*HTDI)ABI"I*IE)TIIT(3T5DE.T3T:DE.)

F<?
$?<4?.:I!.7<?@I<;9F.

(&ET3600TPTA))E))#E$*T&(%CE))TI$T
*HE(A&E+*IC (EC(EA*I%$T(3T5DE.T3T:DE.)

A.'.ID24?22:IIC# ! !) "I(- IHEA (H

A.'.ID24?22:IE , E&CI'EI'CIE"CE/$E&'#"A I(&AI"I"G

A.A.'.ID24?22:I$H - 'ICA IED) CA (I#",I&EC&EA (I#"
A"DI&EC&EA (I#"I(HE&A$ -

C2?A63&0 . A2:IE , E&CI'EI'CIE"CE/$E&'#"A I(&AI"I"G

T R A T A
ART T

(AA ? TD-309AOT7JF.T5417
A67>;@7TAB7@3, A88.89&39?P74+*8847
;5 : 37>TG.TB3D@ : 3DF, P74+*8847
793@TBD3@6A I -F3>>7D, A88.89&39?P74+*8847
C : D;EFAB : 7DTC : 3B ? 3@, A88.89&39?P74+*8847
, AAD : 77ETE.TDG@@,TA884(.&9*?P74+*8847
A4D3 : 3 ? TE67> : 7;F, A88.89&39?P74+*8847
.T (7L3TF3= : 3D;,TP74+*8847?&3)?A88.89&39? ! .(*?P7*8.)*39?+47
A(&)*2.(?A+&.78?/?A884(.&9*?P74;489
AE7B : TF7>E7D, A884(.&9*?P74+*8847
";44KTG3D>3@6, A88.89&39?P74+*8847
);6@7KTH7>83@F, P74+*8847
FD3@57ET ! D3><;5-CGDD3@,TP74+*8847?&3)?C - &.75*7843
3EA@T"7997FF,TA88.89&39?P74+*8847
3DF;@T # 3FF : 7 I ,TL*(9 : 7*7
! 3F : 7D;@7T%B7>>A, A884(.&9*?P74+*8847
A@@3T&DA5K=,TA884(.&9*?P74+*8847
(;53D6AT (7B7FF;, A88.89&39?P74+*8847
35A4T) 793>,TA88.89&39?P74+*8847
H3DDKT) 5 : I 3DFL,TL*(9 : 7*7
;5 : 37>T) A=A>A I , A884(.&9*?P74+*8847
;5 : 37>T) B73D, A88.89&39?P74+*8847
*D35KT) F788K,TA88.89&39?P74+*8847
) FG3DFT) GEE, P74+*8847?&3)?P74;489
GD357T*DAF ? 3@, A88.89&39?P74+*8847
ADFA@T - 39 ? 3@, P74+*8847

A""THI)*%(/TA$DT&%"I*ICA"T)CIE$CETC%+ ( )E),
+$"E))T%*HE(- I)ET$%*ED,T # EE*TG(%+&TIIIT%(
G(%+&TBTGE$E(A"TED+CA*I%$ (E ' +I(E#E$*)
F%(TA""TDEG(EE).T&HI"%)%&H / TC%+ ( )E),
+$"E))T%*HE(- I)ET$%*ED,T # EE*TG(%+&TIIIT%(
G(%+&TATGE$E(A"TED+CA*I%$ (E ' +I(E#E$*)
F%(TA""TDEG(EE)

R A T

C(T6900TPT&%"ICI$G (3T5DE.T3T : DE.)

D#E'I"#(I ! EE(IG&#)$IIIII#&IG&#)$IBI&E%)I&E ! E"(.

C (T7000TPTC% ((EC*I%$) TA $DT) E$ *E$CI $G
(3T5DE.T3T : DE.)

D#E '
" # (I ! EE (IG&#) $IIIII#&IG&#) $IBI&E%) I&E ! E " (.

T TAT T R

+THI)T5900TPT#%DE($TA#E(ICA:T1920T*%
&(E)E$*T(3T5DE.T3T:DE.)

+THI)T6200TPTHI)*%(/T%FT$E-T/%(!TCI*/
(3T5DE.T3T:DE.)

+THI)T6800TPT-%#ETITA#E(ICA$THI)*%(/
(3T5DE.T3T:DE.)

+THI)T6900TPTA#E(ICA$T E-I)HTHI)*%(/T
(3T5DE.T3T:DE.)

R T R

+THI)T3100TPTE+(%&E:T$A&%"E%$T*%THI*"E(,
1789T*%T1945T(3T5DE.T3T:DE.)

+THI)T5600TPT - I*CHC(AF*QATHI)*%(ICA"T)*+D/
(3T5DE.T3T:DE.)

+THI)T5700TPT"A*I$TA#E(ICA$THI)*%(/
(3T5DE.T3T:DE.)

+THI)T6300TPTHI)*%(/T%FT(E"IGI%$T(3T5DE.T3T:DE.)

+THI)T6400TPT#%DE($T E-I)HTHI)*%(/T
(3T5DE.T3T:DE.)

+THI)T6500TPT)%CIA"T+$(E)*TA$DT(E,%"+*I%$
I$T#%DE($T*I#E)T(3T5DE.T3T:DE.)

+T&HIT7200TPTHI)*%(/T%FT&HI"%)%&H/:T
*HET#%DE($T&HI"%)%&HE()T(3T5DE.T3T:DE.)

+T&HIT7300TPT"%GIC:T*HE%(IE)T%FTA(G+#E$*A*I%$
(3T5DE.T3T:DE.)

+T&HIT7400TPTE*HIC):TAT)*+D/T%FTE*HICA"
&(%B"E#)T(3T5DE.T3T:DE.)

+T&HIT7500TPT&HI"%)%&H/T%FT*HETBEA+*IF+"TPT
AE)*HE*IC)T(3T5DE.T3T:DE.)

+T&HIT7600TPTE*HIC)TA$DT#%(A"I*/TI$T*HE
HEA"*HT&(%FE))I%$)T(3T5DE.T3T:DE.)

+T&HIT7700TPT&HI"%)%&H/T%FT(E"IGI%$T(3T5DE.T3:DE.)

+T&%"T5500TPTA # E (ICA $T&%"I*ICA"T&A (*IE) T
(3T5DE.T3T : DE.)

+T&%"T7200TPT#I$%(I*IE)TA$DT*HETC(I#I$A"
+)*ICET)/)*E#T(3T5DE.T3T:DE.)

AT AT A T R ART T

(AA ? TF-309BTOT7JF.T5931
I9ADTB3>E; ? , A884(.&9*?P74+*8847
GAD6A@TB3EE7@, P74+*8847
A>7=E3@6DTD3HK6AH, A88.89&39?P74+*8847
A>8D76TDA>;5 : , A88.89&39?P74+*8847
E>;7TF767D,TA884(.&9*?P74+*8847
) : AE : 3@3TFD;76 ? 3@, A88.89&39?P74+*8847
)3 ? G7>TG3>7,TP74+*8847
$3F3@;7>TGD77@7,TA884(.&9*?P74+*8847
D3@;7>TGD; ? 3>6;, A88.89&39?P74+*8847
/A97E : T AE : ;, A88.89&39?P74+*8847
D;3@3T ! 3>75 : ? 3@, L*(9 : 7*7
AK3>GDT ! D;E : @3@,TA88.89&39?P74+*8847
E;>77@T";5 : F7@F : 3>,TL*(9 : 7*7
& : ;>;BT";EFA I E=K,TA88.89&39?P74+*8847
)F7B : 7@T # 3<7 I ;5L,TP74+*8847
I9ADT # 7>3 ? 76, I3897 : (947
3JT # >K@3DE=;,TP74+*8847
AD;T$397>, L*(9 : 7*7
! I 3 ? 7T$K3@;@, I3897 : (947
3D;K3T&7FDAH3, L*(9 : 7*7
(A47DFT&GFL, L*(9 : 7*7
D3H;6T)3>4,TA884(.&9*?P74+*8847
D3>7T);797>,TA884(.&9*?P74+*8847
*L;BAD3 : T)F7D@, I3897 : (947
(35 : 7>T)FGD ? -B7;EE,TA884(.&9*?P74+*8847
3JT*D3@,TA88.89&39?P74+*8847
7;T . ;@9,TA88.89&39?P74+*8847
(;@3T .T / 3D ? ;E : , P74+*8847?&3)?C-&.75*7843

T R R AT T

+TCI)T1100TPT # IC(%C% # &+*E(TA&&"ICA*I%$)
(4T5DE.T4T : DE.)

'AB12;A@ID5<I5.C2
0< : =92A21IBAI6000I<?IC$I500I<?IC$I2800I<?IC$I1100
<?I(ECI2500ID699I;<A ?2026C2I0?216AI3<?IA56@I0<B?@2.

CI)T1200TPTI$*(%D+C*I%$T*%T%&E(A*I$GT)/)*E #)
(3T5DE.T4T : DE.)

+TCI)T1500TPTA&&"IEDTC% # &+*E(TA(CHI*EC*+(E
2T5DE.,T2T : DE.T(1T : AGDT>75FGD7,T1T : AGDT>34)

CI)T2100TPTI$*(%D+C*I%$T*%T - EBT&AGE
DE , E"%& # E$*T(4T5DE.T4T : DE.)

CI)T3200TPTAD , A$CEDTDA*ABA)ET&(%G(A# #I$G
(4T5DE.T4T : DE.)

CI)T4100TPT$% , E" "TIT(4T5DE.T4T : DE.)

CI)T4200TPT$% , E" "TIIT(4T5DE.T4T : DE.)

+TC&T2800TPT # IC (%C% # &+ *E (TA&&"ICA*I%$)
I$TED+CA*I%$T(4T5DE.T4T : DE.)

'AB12 ; A@ID5<I?202ϭC2I0?21ϭAI3<?
BAI6000,IC$I1100I<?ICI 'I1100I<?I (ECI2500ID699I ; <A
?202ϭC2I0?21ϭAI3<?IA5ϭ@I0<B?@2.

T R

A""TC%#&+*E(T)CIE$CETC%+()E)T(C))T#EE*
G(%+&T,TGE$E(A"TED+CA*I%$ (E'+I(E#E$*)
F%(TA""TDEG(EE)T+$"E))T%*HE(-I)ET$%*ED.

+C)T1200TPTI$*(%D+C*I%$T*%TC%#&+*I$GT
(4T5DE.T4T:DE.)

'AB12;A@ID5<I0<:=92A21IC$I2100ID699I;<A
?2026C2I0?216AI3<?IA56@I0<B?@2.

C)T13A0TPTAD,A$CEDT&(%G(A##I$G
*ECH$I'+E) (4T5DE.T4T:DE.)

'AB12;A@ID5<I5.C2I0<:=92A21IC$I2200
D699I;<A ?2026C2I0?216AI3<?IA56@I0<B?@2.

C)T1400TPTC%#&+*E()TA$DTA))E#B"/T"A$G+AGE
&(%G(A##I$GT(5T5DE.T5T:DE.)

C)T3500TPTDI)C(E*ET)*(+C*+(E)T(5T5DE.T5T:DE.)

C)T3700TPT&(%G(A#TDE)IGTADTA$A"/)I)
(4T5DE.T4T:DE.)

C)T81..TPTI$DE&E$DE$*T)*+D/T(1-3T5DE.T1-3T:DE.)

C)T82..TPT(1-3T5DE.T1-3T:DE.)

DA*AT&(%CE))I$GTC%+()E)TD%T$%*T)A*I)F/
G(%+&T, (E'+I(E#E$*).

+D&T100TPT$E-T)*+DE$*T*ECH$%"%G/T)!I"")
(1T5D.T1T:D.)
(A9@<I%@A21I.@IBAI100I.;1I(ECI100)

+TD&T700TPTI$*(%D+C*I%$T*%T*HETI$*E($E*
(2T5DE.T2T:DE.)

AT AT

A""TC(EDI*-BEA(I$GTT#A*HE#A*IC)T(#A*)
C%+()E)T#EE*TG(%+&T,T%(TG(%+&TCTGE$E(A"
ED+CA*I%$T(E'+I(E#E$*)TF%(TA""TDEG(EE).

MT#A*T#100TPTBA)ICT#A*HE#A*IC)

MT # A*T . 100TP &(E-A"GEB(AT
(0T5DE.T10T : D.TPT5T7CG3F76T5D.)

MT # A*T . 200TPTA"GEB(A
(0T5DE.T1/2T : D.TPT1/2T7CG3F76T5D.)

+T # A*T100TPTE"E # E$*A(/TA"GEB(AT
(0T5DE.T4T : DE.)

+T # A*T300TPTI$*E(# EDIA*ETA"GEB(AT
(0T5DE.T4T : DE.)

+T # A*T600TPT # A*HE # A*IC)T%FTFIACET
(4T5DE.T4T : DE.)

+T # A*T700TPT&(I$CI&"E)T%FT # A*HE # A*IC)T
(4T5DE.T4T : DE.)

"<AI<=2;IA<I@AB12;A@ID5<
5.C2IA.82;I.I : .A52 : .A6O@I0<B?@2I;B : /2?I9I<?
5&452?I<?IA5&?1-F2.?I@2>B2;A6.9I : .A52 : .A6O@.

+T # A*T800TP &(AC*ICA"T # A*HE # A*IC)TF%(
*%DA/N)T - %("D (4T5DE.T4T : DE.)

A*T900TPTC%""EGETA"GEB(AT(3T5DE.T4T : DE.)

+T # A*T1000TPTC%""EGET*(IG%$%#E*(/T
(3T5DE.T3T : DE.)

#=2;IA<I@AB12;A@ID5<I5.C2I=.@@21I ! A(I900I/BA
;<AIA?&4<;< : 2A?F.

+T # A*T1100TPTFI$I*ET # A*HE # A*IC)T
(4T5DE.T4T : DE.)

+T # A*T1200TPTC%$CE&*)T%FT # %DE($T
A*HE # A*IC)T(4T5DE.T4T : DE.)

+T # A*T1300TPT) + (, E / T%FT # A*HE # A*IC)TA$D
C% # &+*E(TC%$CE&*)T(4T5DE.T4T : DE.TPT4T7CG3F76T5DE.)

A*T81 . . TPTI$DE&E$DE$*T)*+D/T(1-3T5DE.T1-3T:DE.)

A*T82 . . TPT(1-3T5DE.T1-3T:DE.)

A*/BI%T9100,TBI%)*A*I)*IC)T(4T5DE.T4T:DE.)

C<B?@2I3B93699@
G?<B=I*IG2;2?.9IE1B0.A6<;I?2>B6?2:2;A@.

. ; FI / 6<9<460 . 9I@O62 ; 02@I0<B?@2I : <?2IA5 . ;
10IF2 . ?@I<91I D699I ; <AI / 2I . 002=A21I3<?I2E2 : =A6< ; I<?
0?216A;

,&(16('B 5$&7,&$/B 856(6B:+2B$5(B$&&(37('B,172B7+(
/,1,&$/B3+$6(B2)B7+(B 856,1*B 52*5$0B0$<B5(&(,9(B&5(',7
)25B " B B 81'$0(17$/6B2)B 856,1* B%<B($51,1*B$
*5$'(B2)B B25B%(77(5B,1B7+(B $7,21$/B ($*8(B)25B 856,1*
B B(;$0 B 5(',7B)25B " B B $/&8/$7,216B)25
(',&$7,21B '0,1,675$7,21 B0$<B%(B($51('B%<B3$66,1*
7+(B 856,1*B (3$570(17B(;$0,1$7,21B:,7+B$B*5$'(B2)B
25B+,*+(5

7$57,1*B,1B7+(B)$//B B6(0(67(5 B,1B25'(5B72B$'9$1&(B,17
1856,1*B&/,1,&$/6 B678'(176B0867B3529,'(B'2&80(17$7,21
)25B21(B2)B7+(B)2//2:,1*B&$7(*25,(6

BB" B ,7,=(16+,3

BB (50$1(17B (6,'(1&<

BB 17(51$7,21$/B 78'(17B:,7+B B 7$786

BB 5$17('B 6</80 B ()8*((B 7$786 B!(0325$5<B 527(&7('
7$786 B#,7++2/',1*B2)B (029$/ B ()(55('B 1)25&('
(3$5785(B25B ()(55('B &7,21B 7$786B%<B7+(B" B*29(510(17

78'(176B:+2B:,6+B72B75$16)(5B,172B7+(B1856,1*B&855,&8
)520B27+(5B&2//(*(6B0867B0((7B7+(B&5,7(5,$B)25B$'0,66,21
,172B7+(B1856,1*B&855,&8/80 B!5$16)(5B678'(176B$5(B127
$'0,77('B',5(&7/<B,172B7+(B1856,1*B&855,&8/80 B!+(<B0867
0((7B:,7+B$B1856,1*B&2816(/25B,1B 220B B$1'B),/(
$1B 33/,&$7,21B)25B '9$1&('B 7$1',1* B'85,1*B7+(B7,0(
3(5,2'B127('B21B7+(B &$'(0,&B $/(1'$5 B:,7+B7+(
(*,675$5 B

)),&,$/B75$16&5,376B0867B%(B6(17B72B7+(B (*,675$5>6B)
$1'B$1B(9$/8$7,21B2)B35(9,286B&2856(6B:,//B%(B'21(B 6B3
&2//(*(B32/,&< B12B025(B7+$1B B&5(',76B0$<B%(B75$16)(55
//B*5$'(6B)25B35(&/,1,&$/B&2856(6B:,//B%(B86('B72B&$/&8
7+(B35(&/,1,&$/B*5$'(B32,17B$9(5$*(

"321B$&&(37$1&(B72B7+(B&2//(*(B75$16)(5B678'(176B0867
),/(B$1B$33/,&$7,21B)25B$B +$1*(B2)B 855,&8/80B'85,1*B7+
3(5,2'B127('B21B7+(B &$'(0,&B $/(1'$5B 7+(B'$7(6B127('
21B7+(B&$/(1'$5B$5(B675,&7/<B$'+(5('B72 B!+,6B$33/,&$7,2
2%7$,1('B,1B7+(B (*,675$5>6B)),&(B!+(B678'(17B0867B6((B
1856,1*B&2816(/25B72B',6&866B7+(,5B$&$'(0,&B3(5)250$1&
$1'B2%7$,1B7+(B&2816(/25>6B6,*1$785(B21B7+(B)250 B!+(
+$1*(B2)B 855,&8/80B 250B,6B68%0,77('B72B7+(B 856,1*
(3$570(17

B/$5*(B180%(5B2)B7+26(B678'(176B:+2B$5(B$&&(37('B,172
7+(B /,1,&$/B&20321(17B2)B7+(B 856,1*B 52*5$0 B&203/(7(
7+(B 856,1*B 52*5$0

5,7(5,$B)25B5(7(17,21B,1B7+(B 856,1*B 52*5$0B0$1'$7(6
7+$7B678'(176

3>BD35F;57TI@EGD3@57TPTH73>F:TC>73D3@57TPTC&(
C7DF;8;53F;A@

"#(E':

(.)IC96;60.9I"B?@6;4I@AB12;A@I6;0B?IA52I2E=2;@2@<3
=B?05.@6;4I.I?2>B6?21IB;63<?:I.;1I2>B6=:2;AI;20-
2@@.?FI3<?IO96;60.9I=?.0A602I6;I52.9A5I0.?2I.42;062@.

(/)I(52I.0.12:60I?2>B6?2:2;A@I6;IA52I"B?@6;4
0B??60B9B:.?2I12:.;16;4I.;1I@AB12;A@I.?2I0.BA6<;21
A<I=9.;IA526?ID<?8I@0521B92@I<?I2EA?.-0B??60B9.?
.0A6C6A62@IID6A5IA56@I6;I:6;1.

"793>T";?;F3F;A@ET8ADT)F3F7T";57@EGD7

$ + (T2000TPT$ + ( ) I $GT*HETE # %*I%$A" " / TI" "T
(4T5DE.T14T : DE.T%@7- : 3>8TE7 ? 7EF7D)

T

$+(T2700TPT&A*H%&H/)I%"%G/T(3T5DE.T3T:DE.)

$+(T2900TPTA"*E($A*I,ETHEA"*HTCA(ET#%DA"I*IE)
(3T5DE.T3T:DE)

+T$+(T4100TPTE#E(GE$C/THEA"*HTCA(ET
(2T5DE.T2T:DE.)

+T$+(T4200TPT&A(E$*I$GT(3T5DE.T3T:DE.)

$+(T5000TPT&AI$T#A$AGE#E$*T)*(A*EGIE) **A A R A T**
(3T5DE.T3T:DE.)

$+(T5100TPTE$DT%FT"IFETI))+E),TH%)&ICETA$D
&A""IA*I,ETCA(E (3T5DE.T3T:DE.)

$+(T82..T(1-3T5DE.T1-3T:DE.)

(7F7@F;A@TCD;F7D;3

.

I3+47 2 &9.43?43?4 ' 9&.3.3 , ?BLS?(*79.+.(&9.43?&3)? 2 &157&(9.(* .38 : 7&3(*?.8?& ; &.1& ' 1*?.3?9 - *?N : 78.3 , ?D*5&79 2 *39?4++.(*, R44 2 ?M-401.

S9 :) *398?&7*?7*6 : .7*) ?94?5 : 7(- &8*?&?1& ' ?(4&9?&3) ?KCC 5&9(- .?T - *>? 2 &>?459?94?5 : 7(- &8*?.3) .; .) : &1?5749*(9.; * , 4 , , 1*8.?

T - *?&(&) * 2 .(?7*6 : .7* 2 *398?&7*?) * 2 &3) .3 , ?&3) ?89 :) *398 &7*?(& : 9.43*) ?94?51&3?9 - *.7? < 470?8(- *) : 1*8?&3) ?*=97& (: 77.(: 1&7?&(9.; .9.*8? < .9 - ?9 - .8?.3? 2 .3) .

R A T

) *T100T-T) + (GICA"T*ECH$%"%G / TIT
(3T5D76;FE,T3T : AGDE)

) *T200T-T) + (GICA"T*ECH$%"%G / TII
(2T5D76;FE,T6T : AGDET(2T>75FGD7,T4T>34)

&D35F;5G ? TCAGDE7E

&D35F;5G ? T (7CG;D7 ? 7@FE
C<B?@2IC< : =92A6< ; :

) *T300T-T) + (GICA"T*ECH$%"%G / TIIIT
(4T5D76;FE,T4T : AGDE)

H73>F : TC>73D3@57TPT # 3>BD35F;57TI@EGD3@57TPT
C& (TC7DF;8;53F;A@

) *T400T-T) + (GICA"T& (%CED+ (E)
(3T5DE.T3T : DE.)

) *T4500T-T) + (GICA "T&HA (# AC%"%G / T
(3T5D76;FE,T3T : AGDE)

C<B?@2I6@
< ; 9FI<=2 ; IA<I ' B?460 . 9I (205 ; <9<4FI : . 7<?@I(0<12I056).

) *T500T-TAD , A $CEDT) + (GICA "T& (%CED+ (E)T
(4T5D76;FE,T4T : AGDE)

A ART T

(AA ?T)-243AOT7JF.T5746

GD;9AD;KTA;L;@, P74+*8847

HA ? 3DTB3D57@3, A88.89&39?P74+*8847

! 3F : DK@TC : 3B ? 3@, A88.89&39?P74+*8847

H3DA>6TC.TCA@@A>>KT D., P74+*8847

! ;7D7@T*ADD7ETHA I 3D6, A88.89&39?P74+*8847

A : @T"3 I D7@57, C-.*+?C411* , *?L&'47&947>?T*(-3.(.&3,?
A)/ : 3(9?L*(9 : 7*7

AE7T"7@;E, S*3.47?C411* , *?L&'47&947>?T*(-3.(.&3

&3FD;5=T # .T">AK6, A88.89&39?P74+*8847

3KT # 3@5;@;, P74+*8847

35A4T"AG;ET # 7KTI , ,TA88.89&39?P74+*8847

A : @T # ;=3>AB3E, A88.89&39?P74+*8847?&3)?C-&.75*7843

, 3D3FFGDT(766K, P74+*8847

(A47DFT)5 : 7@5=, C411* , *?L&'47&947>?T*(-3.(.&3

;5 : 37>T ! .T - 7;E47D9,TP74+*8847

H3@K;@9T . G, A884(.&9*?P74+*8847

A"" &H /)ICA"T)CIE$CETC%+ ( )E)TE . CE&*TCH #
00100,TEG(TC%+ ( )E),TA $DT&H / T00100,TT # EE*
G(%+&T , T%(TG(%+&TCTGE$E(A"TED+CA*I%$

CH # T3200TPT% (GA $ ICTCHE # I) * (/ TIIT
(5T5DE.T9T : DE.)

CH # T81 . . TPTI $ DE&E $ DE $ *T) * + D / T
(1-3T5DE.T1-3T : DE.)

CH # T82 . . TPT(1-3T5DE.T1-3T : DE.)

+TE&)T3600TPT&"A$E*%"%G/:TAT*(I&T*H(%+GH
*HET)%"A(T)/)*E#T(4T5DE.T6T:DE.)

+TE&)T3800TPTI$*(%D+C*I%$T*%TEA(*HT)CIE$CET
(4T5DE.T5T:DE.)

&H/T100TPT&(E,IE-T%FTGE$E(A"T&H/)IC)
(0T5DE.T2T:DE.TPT2T7CG3F76T5DE.)

+T&H/T1100TPTGE$E(A"T&H/)IC)TIT(4T5DE.T6T:DE.)

+T)CIT3700TPTDE,E"%&#E$*)TI$T*HET&H/)CA"T
)CIE$CE)TA$DT*HETE$,I(%$#E$*T(4T5DE.T5T:DE.)

+T)CIT5100TPTCHE#I)*(/TA$DT*HETE$,I(%$#E$*T
(3T5DE.T3T:DE.)

N49*:?T-.8?.8?&?'&8.(?(4:78*.?I9?)4*8?NOT?7*6:.7*?&3>
57*7*6:.8.9*.

+T)CIT5100"BTPTCHE#I)*(/TA$DT*HETE$,I(%$#E$*T
(1T5DE.T2T:DE.)

+T)CIT7000TPT*HET)CIE$CET%FT$+*(I*I%$T
(4T5DE.T5T:DE.)T(3T:DE.T>75FGD7T3@6T2T:AGDE
>34AD3FADKTB7DTI77=)

T R A TA T ART T

(AA ?T , -226TOT7JF.T5143

A@@7TB347FF7TAG63@F, A88.89&39?P74+*8847

A@F : A@KTBAD97E7, P74+*8847?&3)?C-&.75*7843

(AE7 ? 3DKTBG83@A,TL*(9:7*7

A@3F : 3@TD7GFE : , P74+*8847

A@F : A@KTD;"7D@;3,TP74+*8847

"3J ? 3@T ! 3@6GD;, L*(9:7*7

&3 ? 7>3T ! ;@9,TS*3.47?C411* , *?L&'47&947>?T*(-3.(.&3

CA@D36T ! D7GF7D, L*(9:7*7

(A4K@@7T # 3;;, L*(9:7*7

"3GD7>T # 3DE : 3>>,TA88.89&39?P74+*8847

A : @T$3BBA, L*(9:7*7

* : A ? 3ET) ? KF : ,TA88.89&39?P74+*8847

(A47DFT)F;9>;FL,TS*3.47?C411* , *?L&'47&947>?T*(-3.(.&3

E693DT*DAG6F,TI3897 : (947

DA@AH3@T - ;F : 7DE,T

CAT5000TP F%%DTA$DTBE , E (AGETC%) *TC%$* (%"
(3T5DE.T3T : DE.)

T R A TA T

+T*AHT100TPTI$* (%D+C*I%$T*%T*%+ (I) # TA$DT
H%) &I*A"I* / T(3T5DE.T3T : DE.)

CAT6000TP BE , E (AGET # A$AGE # E$*
(3T5DE.T3T : DE.)

+T*AHT200TPTDE) *I$A*I%$TGE%G (A&H / T
(3T5DE.T3T : DE.)

*AHT500TPT"AB% (T (E"A*I%$) TA$DTC+) *% # E (T
) E (, ICET& (AC*ICE) T(3T5DE.T3T : DE.)

CAT9000TP G"%BA"TC+"I$A (/ TI # & (% , I) A*I%$
(3T5DE.T5T : DE.)

CAT9200TP I$*E ($) HI&TI$TC+"I$A (/ TA (*)
(3T5DE.T9T : DE.)

AHT1800TPTCA)ET)+DIE)TI$T*%+(I) #TA$DT
H%)&I*A"I*/T(3T5DE.T3T:DE.)

*AHT1900TPT*HETB+)I$E))T%FT*%+(I) #T&
H%)&I*A"I*/T(3T5DE.T3T:DE.)

*AHT6500TPTAI(&%(*TA$DTA,IA*I%$T
#A$AGE#E$* (3T5DE.T3T:DE.)

*AHT6600TPTC(+I)ET"I$ET#A(!E*I$GTA$D
)A"E) (3T5DE.T3T:DE.)

*AHT6900TPTA,IA*I%TADTAI(&%(*T)EC+(I*/
(3T5DE.T3T:DE.)

$F47 2 *71>?TAH?8260%

AHT7100TPTI$*(%D+C*I%$T%T&(%FE))I%$A"
F%%DT)E(,ICET(3T5DE.T3T:DE.)

*AHT7200TPT(E)*A+(A$*TA$DTF%%DT)E(,ICE
%&E(A*I%$)T(3T5DE.T3T:DE.)

AHT7300TPTC+"+(A"TF%%D):TGE%G(A&H/T%F
F%%DTA$DT-I$ET(3T5DE.T3T:DE.)

*AHT7400TPT#E$+TA$DTDIIGT(%%#
#A$AGE#E$*T(3T5DE.T3T:DE.)

*AHT81..TPTI$DE&E$DE$*T)*+D/T(3T5DE.T3T:DE.)

*AHT8204TPTC(+I)E"I$ET#A(!E*I$GTA$DT)A"E)
(3T5DE.T3T:DE.)

AHT9250TPTFIE"DTE . &E (IE$CETI$T%+ (I) # TA$D H%) &I*A"I* / T(3T5DE.T9T : DE.)

*AH/ (&ET4600TPTFACI"I*IE) T&"A$ IGTI$T) &% (*) T (3T5DE.T3T : DE.)

AH/ (&ET700TPTI$* (%D+C*I%$T%T) &% (*) T # A$AGE # E$*T(3T5DE.T3T : DE.)

AR T T

T3000TPTI$* (%D+C*I%$T%T # A (I*I # E *ECH$%"%G / (3T5DE.T4T : DE.)T12T : DE.T>75FGD7,T2T : DE.T>342

*T3300TPT , E)) E"T*ECH$%"%G / TIT(3T5DE.T5T : DE.)

#=2 ; I< ; 9FIA<I ! . ?6A6 : 2I (205 ; <9<4FI ! . 7<?@.

*T03400TPT , E)) E"T*ECH$%"%G / TIIT(3T5DE.T5T : DE.)

*T4300TPT # A (I$AT%&E (A*I%$) T(3T5DE.T4T : DE.)

*T4600TPTC%A) *A"T&I"%*IGTADT) EA # A$) HI& (4T5DE.T6T : DE)

T5000TPTI$* (%D+C*I%$T%T%+ *B%A (D # %*% ( ) T(2T5DE.T3T : DE)

T5100TPTI$* (%D+C*I%$T%TDIE) E"TEGIE) (2T5DE.T3T : DE.)

*T5200TPT - E"DI$GT(2T5DE.T3T : DE.)

*T5300TPTFIBE (G"A)) ,T (EF (IGE (A*I%TAD H / D (A+"ICT (E&AI ( ) T(2T5DE.T3T : DE.)

*T5400TPT"% - T , %" *AGETE"EC* (ICA"T) /) *E #) TTT (2T5DE.T3T : DE.)

T5500TPT # A (I$ETE"EC (%$IC) T(2T5DE.T3T : DE.)

*T5600TPTAD , A$CEDT%+*B%A (D)
(3T5DE.T3T : DE.)

RAR ART T

(AA ?T"-200T0T7JF.T5637

C3D>AETAD9G7>>7E, A88.89&39?P74+*8847

3KTB7D@EF7;@, A884(.&9*?P74+*8847

73@TBA99E,TA88.89&39?P74+*8847

- 7@6KTC : G, A88.89&39?P74+*8847

G>;3TFGD3K, A88.89&39?P74+*8847

! 3 ? ;@;T ! 3DD3@,TC4⁞⁞* , *?L& ' 47&947>?T*(- 3.(.&3

(7347=3T ! ;@9, A88.89&39?P74+*8847

AE7B : ;@7T # GDB : K, A884(.&9*?P74+*8847?&3)?C - .*+?L. ' 7&7.&3

(;5 : 3D6T$3<<3D,TA88.89&39?D.7*(947?4+?M*).&?C*39*7

7@@;87DT$A7,TA88.89&39?P74+*8847

(A47DF3TE.T&;=7,TA88.89&39?P74+*8847

;5 : 37>T(AEEA@,TP74+*8847?&3)?D.7*(947?4+?M*).&?C*39*7

C75;>;3T)3>47D,TA884(.&9*?P74+*8847

E>;L347F : T*A ? B=;@E, A88.89&39?P74+*8847

T R RT RAR

C# " (I ") I " GIED) CA (I# " I$&#G&A ! '

E@9>;E : T3ET3T) 75A@6T " 3@9G397

$A&(" E&' HI$IE " DEA * #&'

A ? 7D;53@TI@EF;FGF7TA8T&DA87EE;A@3>TBAA==77B7DE

H;9 : T) 5 : AA>TECG;H3>7@5KT (G.E.D.)

$3F;A@3>TH73>F : 53D77DETAEEA5;3F;A@

C7DF;8;53F7T&DA9D3 ? E

$) B ICA (I# " '

* : 7T*3J;TI@EF;FGF7 ";47D3>TADFE

CA>>797T8ADT!;6ET(CF!)

D;B>A?3T$AI

).A.*.T&D7B3D3F;A@T&DA9D3?

(797@FET&D7BT&DA9D3?

" 1(05: *
%*/0.1 0%+* (
/0 ""

+$*: .+* -+,)6@ (9'%8-32@ **-')6 @ -6)'836@3*@ 328-29-2+ (9'%8-32 @ %6/)8-2+ @ 63138-327 @ (:)68-7-2+ @ 3286%'87 %2(@ 6%28@ 986)%',
@ 928)6@ 300)+) @@ @);@#36/@ 2-:)67-8=

**!.5: .!1 -+,)6@ (9'%8-32@ **-')6@ 77-78%28 @)+-786%6 4)'-%0-78 @ 263001)28@ %2%+)1)28
@#36/@ 300)+) @@ @ 633/0=2@ 300)+)

+$*: !2! +)2-36@ 300)+)@ %&36%836=@)',2-'-%2 @ -303+-'%0@ '-)2')7
@ -2+7&3639+,@ 31192-8=@ 300)+)

+$*: +/0 77-78%28@ 63*)7736 @ 31192-'%8-327@)6*361-2+@ 687
@ 928)6@ 300)+) @ @ 633/0=2@ 300)+)

.!#+.5: %6%* 63*)7736 @ ,=7-'%0@ '-)2')7
@)0%6977-%2@ 8%8)@ 2-:)67-8= @ , @ 977-%2@ '%()1=@3*@ '-)2')7

)!/: $!.* 77-78%28@ 63*)7736 @ 967-2+
@ @!%+2)6@ 300)+)

("! +: 1*+6: (. +*)'896)6 @ 36)-+2@ %2+9%+)7
@ @ %8-32%0@ 2-:)67-8=@3*@ -'%6%+9% @ @ ,)@ -8= 300)+)@3*@);@#36/

*0$+*5: : (!// * .%*% 773'-%8)@ 63*)7736 @ 2+0-7,
@ %-60)-+,@ -'/-2732@ 2-:)67-8= @
@ 3091&-%@ 2-:)67-8= @ , @ 98+)67@ 2:-:)67-8=@

% !: ((! 77-78%28@83@ -+,)6@ (9'%8-32@ **-')6 (1-2-786%8-:)@ 336(-2%836 @ '%()1-'@ ',)(90-2+ :)2-2+ 89(-)7@
@ @ %')

%* : +,$% : (0%!.% -+,)6@ (9'%8-32@ 77-78%28 4)'-%0@ 77-78%28@83@ 97-2)77@ %2%+)6@
@ @);@#36/@ 2-:)67-8=

0!2!*:) .*% ' 773'-%8)@ 63*)7736 @ 2+0-7,
@ 63;2@ 2-:)67-8= @ @ , @ 98+)67@ 2-:)67-8=

!(%*!: ,!* 77-78%28@ 63*)7736 @ -7836= @ ,-03734,=@ 30-8-'%0@ '-)2')
@ 2-:)67-8=@3*@ %()2 @ -+)6-% @ @ 32(32@ ',330@3* '3231-'7@ @ 30-8-'%0@ '-)2') @ ,-0 @ @ , @ 2-:)67-8=@3* %+37 @ -+)6-%

1/ *: . *+"" 63*)7736 @ 97-2)77
@ %62%6(@ 300)+) @ , @ 3091&-%@ 2-:)67-8=

!/(%!: . !.) * 77-78%28@ 63*)7736 @),%:-36%0@ '-)2')7@ 91%2@)6:-')7
@ 633/0=2@ 300)+) @ @ ,)@ -8=@ 300)+)@3*@);@#36/)68-*-'%8)@-2@ 7=',3%2%0=7-7 @ %8-32%0@ 7=',303+-'%0 773'-%8-32@*36@ 7=',3%2%0=7-7 @ ! @!96>;)-0)6@ ',330 3*@ 3'-%0@!36/ @#)7,-:%@ 2-:)67-8=

.(+/: .#1!((!/ 77-78%28@ 63*)7736 @ -&6%6=
@ %@ %00)@ 2-:)67-8= @ @ 32+@ 70%2(@ 2-:)67-8= @@
@);@#36/@ 278-898)@3*@)',2303+=

! ! : .(%// 63*)7736 @ 3 -6)'836 @ 31192-8=@)%08, 63+6%17 @)%08, @ ,=7-'%0@ (9'%8-32@ @)'6)%8-32
@ 9))27@ 300)+) @ @ (@ (@ 3091&-%@ 2-:)67-8=

1. : .)+1. 300)+)@ %&36%836=@)',2-'-%2 @ '')77 &-0-8=@)28)6

0!,$!*: .)/0.+*# 77-78%28@ 63*)7736 @ 2+0-7,
@ 2-:)67-8=@3*@ %0-*362-% @)6/0)= @ @ #@ 832=@ 633/ , @ #@ 6%(9%8)@)28)6

**!: !00!: 1 *0 77-78%28@ 63*)7736 @ 396-71@ 374-8%0-8= @ -6)'836 @)28)6@*36@ '3231-'@%2(@!36/*36')):)0341)28
@ 90-2%6=@ 278-898)@3*@ 1)6-'% @ @!)70)=%2@ 2-:)67-8= @ @ %69',@ 300)+)

$ 3% ': 1#1/0%*! 300)+)@ %&36%836=@)',2-'-%2 @ 68
@ 2-:)67-8=@3*@!-7'327-2 -0;%9/))
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#+.: (/%) 773'-%8)@ 63*)7736 @ %8,)1%8-'7@ @ 31498)6 '-)2')
@#)7,-:%@ 2-:)67-8= @ @);@#36/@ 2-:)67-8= , @ #@ 6%(9%8)@)28)6

+) .: . !* 77-78%28@ 63*)7736 @ ,=7-'%0@ '-)2')7
@ 300)+)@3*@);@)67)= @ @ , @);@#36/ 2-:)67-8=

% $!(: : .*$ .0 63*)7736 @ -7836= @ ,-03734,=@ 30-8-'%0@ '-)2')7
@ %:)6*36(@ 300)+) @ , @)140)@ 2-:)67-8=

.% : .0+(+)!+ 77-78%28@ 63*)7736 @),%:-36%0@ '-)2')7@ 91%2@)6:-')7
@ #@ 832=@ 633/ @ @ 36(,%1@ 2-:)67-8=

!() : .0+* -+,)6@ (9'%8-32 77-78%28 @ (1-77-327@ 4)'-%0-78@

/ % $: : !* 0$!* 63*)7736 @ 336(-2%836@ ,=7-'-%2
77-78%28@ 6%27*)6@ 48-32 @ -303+-'%0@ '-)2')7
@ ,)@ -8=@ 300)+)@3*@);@#36/ @ @ 32+@ 70%2(
2-:)67-8= @ , @ ,)@ -8=@ 2-:)67-8=@3*@);@#36/

5: !.*/0!%* 773'-%8)@ 63*)7736 @ -&6%6=
@ #@ 96',%7) @ @ , @ 2-:)67-8=@3*@ %0-*362-%@%8
)6/)0)= @ @ 8 @ 3,2 7@ 2-:)67-8=

** : !0 * +1.0 -+,)6@ (9'%8-32@ 773'-%8) @ 77-78%28
-6)'836@3*@ 300%&36%8-:)@ 63+6%17
@ -2+7&3639+,@ 31192-8=@ 300)+) @
@ 300)+)@3*@ 8%8)2@ 70%2(

(%/+*: !00!. 77-78%28@ 63*)7736 @),%:-36%0@ '-)2')7@
91%2@)6:-')7
@ /-(136)@ 300)+) @ @ 6%2()-7@ 2-:)67-8=
, @ 6%2()-7@ 2-:)67-8=

%* : % * +.+//+ -+,)6@ (9'%8-32@ **-')6 @
-6)'836 @ 278-898-32%0@)7)%6',
@ -2+7&3639+,@ 31192-8=@ 300)+) @
@ 633/0=2@ 300)+)

.%!: 05: %##/ -+,)6@ (9'%8-32@ 77-78%28 @
'%()1-'@ (:-736 @ 4)2-2+@ 336 @)%62-2+@ 31192-8-)7
@ 633/0=2@ 300)+)

% *!: %(5' 77-78%28@83@ -+,)6@ (9'%8-32@ **-')6 @
9836-2+@ 336(-2%836
@ -2+7&3639+,@ 31192-8=@ 300)+) @
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+ !.0: (%/ !((63*)7736 @ 2+0-7,
@ @ , @ 2-:)67-8=@3*@ %0-*362-% @ %28%@ %6&%6%

*0$+*5: ('! -+,)6@ (9'%8-32@ 77-78%28 @ 89()28@ -*)
4)'-%0-78
@ @);@#36/@ 2-:)67-8=

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%2(@ %&36@)0%8-327@ -6)'836
@ #@ 832=@ 633/ @@ @ 8 @ 3,2 7@ 2-:)67-8=@ ',330
3*@ %;

0 /$: + 0/3 %* 77-78%28@83@ -+,)6@ (9'%8-32@ **-')6
(1-2-786%8-:)@ 336(-2%836 @ -2+0)@ 834
@ -2+7&3639+,@ 31192-8=@ 300)+) @ @ ,)@ -8=
300)+)@3*@);@#36/

! *: +##/ 77-78%28@ 63*)7736 @ -&6%6= @
@ %62%6(@ 300)+) @ @ 6%88@ 278-898)@ ',330@3*
2*361%8-32@%2(@ -&6%6=@ '-)2') @@
@ 633/0=2@ 300)+)

*0$+*5: +.#!/! 63*)7736@%2(@ ,%-64)6732 @ 396-71@
374-8%0-8=@
@ -2+7&3639+,@ 31192-8=@ 300)+) @
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% $!(!: . +)'896)6 @)%08, @ ,=7-'%0@ (9'%8-32@
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@ 8 @ 37)4, 7@ 300)+) @ @);@#36/@ 2-:)67-8=

-1!(%*!: . 5 77-78%28@ 63*)7736 @ 2+0-7,
@ @ %8,30-'@ 2-:)67-8= @
@ , @);@#36/@ 2-:)67-8=

+.!00 : . * %+ . / 63*)7736@%2(@ ,%-64)6732
-303+-'%0@ '-)2')7
@ @ @ ,-0 @ , @ 8 @ 3,2 7@ 2-:)67-8=

!# *: . * +3 ((!. 77-78%28@ 63*)7736 @ -7836= @
,-03734,=@%2(@ 30-8-'%0@ '-)2')7
@ 300)+)@3*@!-00-%1@%2(@ %6= @ @ ,
)36+)83;2@ 2-:)67-8=

0 (% : .! %'$%* -+,)6@ (9'%8-32@ 77-78%28 @
77-78%28@ -6)'836 @ @ 63+6%17 @ 328-29-2+@ (9'%8-32
@ -2+7&3639+,@ 31192-8=@ 300)+) @
@ @ :)6(03:7/@ 278-898)@3*@ %8-32%0@ '3231-'7
@ 633/0=2@ 300)+)

!/(!5: .+ !. 77-78%28@ 63*)7736 @ 2+0-7,
@ 32+@ 70%2(@ 2-:)67-8= @ !@ 378@ %1497
@)%',)67@ 300)+) @ 3091&-%@ 2-:)67-8= @
, @ #@ 832=&633/

% 0+.: .+ !. 300)+)@ %&36%836=@)',2-'-%2 @ -303+-'%0
')2')7
@);@#36/@ 2-:)67-8= @ @ -2+7&3639+,@ 31192-8=
300)+) @ @ 633/0=2@ 300)+)

! 0$!.: .+3* -+,)6@ (9'%8-32@ 773'-%8) @ -6)'836
,-0('%6)@)28)6
@ @ (@ 8@ 3,2?7@ 2-:)67-8=

%6 : .1*)'896)6 @ 2+0-7,
@ &)60-2@ 300)+) @ @ 928)6@ 300)+)

1/0%*: .5 *0 77-78%28@83@ -+,)6@ (9'%8-32@ **-')6 @
300)+)@ (:%2')1)28
@ 2-:)67-8=@3*@ 6/%27%7 @ -880)@ 3'/

+/!) .5: 1" *+)'896)6 @ 396-71@ @ 374-8%0-8=
@ 9))27@ 300)+)

$.%/0%*!: 1%0! ! '*!. -+,)6@ (9'%8-32@ **-')6 @
-6)'836@3*@ 328-29-2+@ (9'%8-32
@ -2+7&3639+,@ 31192-8=@ 300)+) @
@ 633/0=2@ 300)+)

%((%): 1.#!. 63*)7736 @),%:-36%0@ '-)2')7@ @ 91%2
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@ %77%9@ 31192-8=@ 300)+) @
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, @ 2-32@ 6%(9%8)@ ',330

%0(%*: $%((77-78%28@ 63*)7736 @),%:-36%0@ '-)2')7@
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@ %*%=)88)@ 300)+) @ @ 2-:)67-8=@3*@ 036-(%

1((!!:) .% #! 300)+)@ %&36%836=@)',2-'-%2
-303+-'%0@ '-)2')7
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%2(@ 91%2@)6:-’)7
@ 2-:)67-8=@3*@);@ %780)@9432@ =2) @
@ 2-:)67-8=@3*@);@ %780)@9432@ =2) @
378@ 6%(9%8)@)68-*-’%8) @ 2-:)67-8=@3*@ 32(32 @ 30(71-8,7
300)+) @ @ @),1%2@ 300)+) @ , @ 9786%0-%2
%8-32%0@ 2-:)67-8= @ %2&)66% @ 9786%0-%

(!* : ..+66+ -+,)6@ (9’%8-32@ 77-78%28 @
77-78%28@)+-786%6@ 89()28@)’36(7 6%(9%8-32@ :%09%8-32
@ 633/0=2@ 300)+)

+*5: !/!(’ 300)+)@ %&36%836=@)’,2-’-%2 @ ’%()1-’
31498-2+
@ -2+7&3639+,@ 31192-8=@ 300)+)

"" !(: !/0 .+ 77-78%28@83@ -+,)6@ (9’%8-32@ **-’)6
336(-2%836@3*@)+-786%8-32@ 2*361%8-32@ @ %8%@ %2%+)1)28
@ 8 @ 6%2’-7@ 300)+) @ @ 633/0=2@ 300)+)

!. (%*!: $,!5 63*)7736 @),%:-36%0@ ’-)2’)7@ @ 91%2
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@ 8 @ 3,2 7@ 2-:)67-8= @
@)%’,)67@ 300)+) @ 3091&-%@ 2-:)67-8= @
(@ 98+)67@ 2-:)67-8=

$.%/0+,$!.: $,) * 77-78%28@ 63*)7736 @ -7836=
,-03734,=@ @ 30-8-’%0@ ’-)2’)
@ 2-32@ 3928=@ 300)+) @ @);@)67)=@ -8=@ 2-:)67-8=
@ 37832@ 2-:)67-8= @ , @ 368,@)286%0@ 2-:)67-8=

0$.5*: $,) * 77-78%28@ 63*)7736 @ ,=7-’%0@ ’-)2’)7
@ 2-:)67-8=@3*@)227=0:%2-% @
@ , @);@#36/@ 2-:)67-8=

!.) *: $.(!/ 77-78%28@ 63*)7736 @)%08, @ ,=7-’%0
(9’%8-32@ @)’6)%8-32
@ %6-&&)%2@ 2-32@ 300)+) @ @ 31%@ -2(%
2-:)67-8= @ (@ 80%28-’@ 2-32@ 300)+) @
@ (@ 3091&-%@ 2-:)67-8= @)%’,)67@ 300)+)

(1 %1/: $.%/0+,$!. -+,)6@ (9’%8-32@ 77-78%28 @ -2%2’-%0
-(@ 4)’-%0-78 @)*%908@ %2%+)6
@),1%2@ 300)+)

!* 5: $1 77-78%28@ 63*)7736 @ -&6%6=
@ %62%6(@ 300)+) @ @ %69’,@ 300)+)
@ 9))27@ 300)+)

1 %((!: % $)%*/’% 77-78%28@ 63*)7736 @ 967-2+
@ @ 300)+)@3*@ 8%8)2@ 70%2(@
@ 928)6@ 300)+)

1 .!5: +$!* 773’-%8)@ 63*)7736 @ 97-2)77
@ %(’0-**)@ 300)+) @ @ @ %6:%6(@ 97-2)77@ ’,330

!0!.: +$!*)%2@3*@ 89()28@ **%-67 @ 89()28@)6:-’)7@

.%/0%*: !.%) *+2 77-78%28@ 63*)7736 @ 68
@ 3,%;/@ %00)=@ 31192-8=@ 300)+) @ @
2-:)67-8=@3*@ %-287@ =6-0@%2(@)8,3(-97 @)0-/3 @ 9623:3
90+%6-%

+$*: !/ ."%*+ 773'-%8)@ 63*)7736 @ 68
@ 8 @ ,31%7@ 59-2%7@ 300)+)@ ',330@3*@ -79%0@ 687
@ 928)6@ 300)+)

+* 0$ *: !10/ $ 63*)7736 @ 396-71@ @ 374-8%0-8=
@ 90-2%6=@ 278-898)@3*@ 1)6-'% @
@ 6)<)0@ 2-:)67-8= @ , @);@#36/@ 2-:)67-8=

$.%/0% *: (%!*!/: !6 -+,)6@ (9'%8-32@ 773'-%8) @
278-898-32%0@)7)%6',@ 2%0=7-7 @ 278-898-32%0@)7)%6',
@ %-6*-)0(@ 2-:)67-8= @ @)22@ 8%8)

! $!/: %)+* -+,)6@ (9'%8-32@ 77-78%28 @
89()28@ %6))6@ 63+6%1@ 4)'-%0-78@
@ :%2+)0@ 2-:)67-8= @ @ 368,)62@ -6+-2-%@ %;@ ',330

*0$+*5: % !.*% 63*)7736 @ 396-71@ @ 374-8%0-8=
@ @ 63*)77-32%0@ -4031% @ 8 @ 3,2 7@ 2-:)67-8=

(%6 !0$: %((773'-%8)@ 63*)7736 @ 2+0-7,
@!)007@ 300)+) @ @ , @ #@ 9**%03

+.!00 : % +.!*6+ 773'-%8)@)%2@3*@ '%()1-'@ **%-67
@ 633/0=2@ 300)+) @ @ -',132(@ 300)+) @
(@)%',)67@ 300)+) @ 3091&-%@ 2-:)67-8=

% '%!: % .0%*+ 77-78%28@83@ -+,)6@ (9'%8-32@ 773'-%8)
263001)28@ 967%6@ 336(-2%836 @ -2%2')@ @ (1-2-786%8-32
@ @ 300)+)@3*@ 8%8)2@ 70%2(

!* 0 : %)%0.+2 -+,)6@ (9'%8-32@ 773'-%8) @ 773'-%8)
-6)'836 @ 967%6
@ 3963@ 300)+)

(".! : +(% $ 77-78%28@ 63*)7736 @ %8,)1%8-'7@ @ 31498)6
')2')
@ 2-:)67-8=@3*@)227=0:%2-% @ @ 3091&-%@ 2-:)67-8=
, @ 2-:)67-8=@3*@ %6=0%2(

+* (: +*%* 63*)7736 @ 97-2)77
@);@#36/@ 2-:)67-8= @ @)62%6(@ @ %69',@ 300)+) @ #

+$*: +*+$1! -+,)6@ (9'%8-32@ 77-78%28 @
336(-2%836@3*@ 967-2+@)%62-2+@)7396')7 @ 967-2+
@ # @ 300)+)@3*@)',2303+= @ @ 928)6@ 300)+)

16!00!: % +(!: +2! 77-78%28@83@ -+,)6@ (9'%8-32@ **-')6 @
77-78%28@83@ 9(+)8@ -6)'836
@ -2+7&3639+,@ 31192-8=@ 300)+) @ @ 633/0=2@ 300)+)

% '%!: .%/ +((-+,)6@ (9'%8-32@ **-')6 @
-6)'836 @ 91%2@)7396')7

" !"

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" !"

01 .0: !.)!/ : 77-78%28@ 63*)7736 @),%:-36%0@ ’-)2’)7@ 91%2@)6:-’)7
@);@#36/@ 2-:)67-8= @ @ 37832@ 2-:)67-8= @ 9*87@ 2-:)67-8= @ (-)0(-2+@ 6%(9%8)@ 278-898)

!0$: %*# : 77-78%28@ 63*)7736 @),%:-36%0@ ’-)2’)7@ @ 91%2)6:-’)7
@ 2-:)67-8=@3*@ 3036%(3 @
@ , @ 2-:)67-8=@3*@ %77%’,97)887

)!(: %*# :)2-36@ 300)+)@ %&36%836=@)’,2-’-%2 @ 396-71@ 374-8%0-8=
@);@#36/@ -8=@ 300)+)@3*@)’,2303+=

! !’ : %*# : 77-78%28@ 63*)7736 @ -&6%6=
@ @ ,)@ -8=@ 300)+)@3*@);@#36/ @ @ 9))27@ 300)+)

.5 *: %0! : 300)+)@ %&36%836=@)’,2-’-%2 @ 68
@ 368,)62@ 00-23-7@ 2-:)67-8= @ @!%7,-2+832 2-:)67-8=@-2@ 8@ 39-7

%.%): %00.!((: 63*)7736 @ -303+-’%0@ ’-)2’)7
@ 633/0=2@ 300)+) @ @);@#36/@ 2-:)67-8= @ (@)%’,)67@ 300)+) @ 3091&-%@ 2-:)67-8=

% $!(: (!%* : -+,)6@ (9’%8-32@ **-’)6 @)+-786%6@ -6)’836 @#36/@ 300)+)

!2%*: +(’)!5!. :)’896)6 @ 2+0-7,
@ #@ -2+,%1832 @ @ %0-*362-%@ 8%8)@ 2-:)67-8= 32+@)%’,

*.%’ : +$ 2% : -+,)6@ (9’%8-32@ **-’)6 @ 263001)28@ 967%6 -6)’836 @ 967%6
@ 3963@ 300)+)

%.%): +."%*! : 77-78%28@83@ -+,)6@ (9’%8-32@ **-’)6 77-78%28@83@8,)@ 336(-2%836 @ %8,@!36/7,34
@ 633/0=2@ 300)+)

. * !/: . (&% 1.. * : 63*)7736@%2(@ ,%-64)6732 @ -7836= @ ,-03734,=@%2(@ 30-8-’%0@ ’-)2’)7 @ -6)’836 @ -&)6%0@ 687@ 63+6%1@)286%0@ 322)’8-’98@ 8%8)@ 2-:)67-8=
@)36+-%2@ 3968@ 300)+) @ @ , @);@#36/@ 2-:)67-8=

.+(: . 2!06 : -+,)6@ (9’%8-32@ 77-78%28 @ 3140-%2’)@ 336(-2%836
@ -2+7&3639+,@ 31192-8=@ 300)+) @ @ 633/0=2 300)+) @ (@ -’,132(@ 300)+)

+*. : .!10!. :)’896)6 @ 396-71@ @ 374-8%0-8=
@ @);@#36/@ 278-898)@3*@)’,2303+=

5 (1.: .%/$* * 77-78%28@ 63*)7736 @ %8,)1%8-’7@ 31498)6@ ’-)2’)
@ 8 @"%:-)6 7@ 300)+)

+(!!*: 1) . : 773’-%8)@ 63*)7736@%2(@)498=@ ,%-64)6732 967-2+
@ 32+@ 70%2(@ 300)+)@ 374-8%0@ ’,330@3*@ 967-2+ @ @ @ 300)+)@3*@ 8%8)2@ 70%2(

1/ *: $) * :)’896)6 @),%:-36%0@ ’-)2’)7@ @ 91%2)6:-’)7
@ @ 633/0=2@ 300)+) @ , @);@#36/@ 2-:)67-8=

16 **!: +*0 : 63*)7736 @),%:-36%0@ ’-)2’)7@ @ 91%2)6:-’)7
@ 2-:)67-8=@3*@ -’,-+%2 @ ,-0 @ , @#%0)@ 2-:)67-8=

+$)! : ’.%) : 773’-%8)@ 63*)7736 @ -303+-’%0@ ’-)2’)7
@ 278-898)@3*@ +6-’90896%0@)’,2303+=@-2@ 0+)6-%
@ (@ 2-:)67-8)@ -&6)@(3@ 69<)00)7
@ , @ ,)@ %8,30-’@ 2-:)67-8=@3*@ 39:%-2 @)0+-91

!(%// : ..! : 77-78%28@83@ -+,)6@ (9’%8-32@ **-’)6 -2%2’-%0@ -(@ -6)’8@ 3%2@ 336(-2%836
@ 6-%6’0-**)@ 300)+)

% +0%*#: 1 : 77-78%28@83@ -+,)6@ (9’%8-32@ **-’)6 31192-’%8-327@ 9&0-’%8-327@)7-+2@ 336(-2%836@
@ -2+7&3639+,@ 31192-8=@ 300)+) @ @ ’,330@3* -79%0@ 687

$+) /: 2 66% : 63*)7736 @ 2+0-7,
@!%7,-2+832@ 2-:)67-8= @ @ 2-:)67-8=@3*@ -77396-
@ 2-:)67-8=@3*@ 3;% @ , @ #@ 6%(9%8)@)28)6

+$*: 3.!* ! : ,-)*@ 300)+)@ %&36%836=@)’,2-’-%2 @ ,=7-’%0 ’-)2’)7
@ 36(,%1@ 2-:)67-8=

2% : 3/+* : 300)+)@ %&36%836=@)’,2-’-%2 @)%08, ,=7-’%0@ (9’%8-32@ @)’6)%8-32
@ -2+7&3639+,@ 31192-8=@ 300)+)

!"".!5: 4 : 773’-%8)@ 63*)7736@%2(@ ,%-64)6732 @ 97-2)77
@ 633/0=2@ 300)+) @ @)2.%1-2@ %6(3>3@ ’,330@3*@ %
@$-’/0-2@ ’,330@3*@ 97-2)77 @ %69’,@ 300)+)

. *06: : ! +*0! : 63*)7736 @ 36)-+2@ %2+9%+)7
@ @ 633/0=2@ 300)+) @ , @ , @ #@ 6%(9%8))28)6

/+*: !##!00 : 77-78%28@ 63*)7736 @ -7836= @ ,-03734,=@%2(30-8-’%0@ ’-)2’)
@ -+,0-2)@ 31192-8=@ 300)+) @ @ 2-:)67-8=@3* !%7,-2+832 @ @)%880)@ 2-:)67-8=@ ’,330@3*@ %;

+/!: !*%/ :)2-36@ 300)+)@ %&36%836=@)’,2-’-%2 @ ,=7-’%0 ’-)2’)7
@ %28-%+3@)@ %0-@ 2-:)67-8=

1.!*: !2!/-1! : 77-78%28@83@ -+,)6@ (9’%8-32@ **-’)6 @ (1-2-786%8-:)@ 336(-2%836 @ ’%()1-’@ **%-67
@)286%0@ 322)’8-’98@ 8%8)@ 2-:)67-8=

%(: : !2%*! : 773’-%8)@ 63*)7736 @)%08, @ ,=7-’%0@ (9’%8-32 @)’6)%8-32
-6)’836 @ 43687 @ -82)77@%2(@ ,)6%4)98-’@)’6)%8-32@ 63+6
@ @ , @);@#36/@ 2-:)67-8=

+** : !25 : 77-78%28@ 63*)7736 @ 2+0-7,
@ 2-:)67-8=@3*@ %77%’,97)887 @ @ 633/0=2@ 300)+) , @ 2-32@ 278-898)@%2(@ 2-:)67-8=

1*: $!*1#: !+*: % : -+,)6@ (9’%8-32@ 77-78%28 @ -2%2’) 4)’-%0-78 @ 967%6
@ %’)@ 2-:)67-8=

%(!!*: % $0!*0$ (:)’896)6 @ %8,)1%8-’7@ @ 31498)6@ ’-)2’)
@ 9))27@ 300)+) @ @ 98+)67@ 2-:)67-8=

1 *%0 : %* .!/ : -+,)6@ (9’%8-32@ **-’)6 @)498=@ -6)’836 @ 91%2@)7396’)7
@ 633/0=2@ 300)+)

!+.#% : %* : 773’-%8)@ 63*)7736 @ -303+-’%0@ ’-)2’)7
@ , @ 2-:)67-8=@3*@ ,-’%+3

$%(%,: %/0+3/’5 77-78%28@ 63*)7736 @ %8,)1%8-’7@ 31498)6@ ’-)2’)
@#)7,-:%@ 2-:)67-8= @ @ 30=8)’,2-’@ 278-898)@3*@); #36/@ 2-:)67-8= @ , @ #@ 6%(9%8)@)28)6

%* 5: %1 : -+,)6@ (9’%8-32@ **-’)6@ @ ’%()1-’@ 63+6%1@ -6)’836
@ #@ 2)328% @ @);@#36/@ 2-:)67-8=

$%*#: %1 : -+,)6@ (9'%8-32@ 773'-%8) @ -6)'836@3*@ -2%2'-%0@)4368-2+@%2(@ =78)1@)',2-'%0 944368 @ %69',@ 300)+)

!(: (! +/ : 63)7736 @ 68 @ -0%@ @ 328%2%07 @ 4%-2 @ @ 2-:)67-8=@3*@ %6')032% @ 4%-2

0.% ': (+5 : 77-78%28@ 63*)7736 @ ,=7-'%0@ '-)2') @ , @ 2-:)67-8=@3*@ %0-*362-%

1 . +: +(+ : 63*)7736 @ 36)-+2@ %2+9%+)7 @)286%0@ 2-:)67-8= @ %8%2>%7 @ 9&% @ @ ,)@ -8=@ 300)+)@3*@);@#36/ , @ #@ 6%(9%8)@)28)6

!% %: : +,!6 : -+,)6@ (9'%8-32@ **-')6 @ -2+0)@ 834 -6)'836 3927)036 @ 263001)28@ %2%+)1)28 @ %6=13928@ %2,%88%2@ 300)+) @ ! @ 928)6@ 300)+)@ ',330@3*@ 3'-%0@!36/

.!*!: +,!6 : 77-78%28@83@ -+,)6@ (9'%8-32@ **-')6 @ 263001)28)+-786%6@ 336(-2%836 @ 3963@ 300)+)

+$*: +,!6)'896)6 @ -303+-'%0@ '-)2')7 @ -2+7&3639+,@ 31192-8=@ 300)+) @ @ 3091&-% 2-:)67-8= @ @ %8-1%@ 300)+)@3*@)(-'-2) @ ,-0-44-2)7

. 5: +1%/ : -+,)6@ (9'%8-32@ 77-78%28 @ '%()1-'@)78-2+ 4)'-%0-78@ @ 368,;)78)62@ 2-:)67-8=

* . : 1& * : -+,)6@ (9'%8-32@ 77-78%28 @)+-786%6@ 4)'-%0-78 263001)28@ %2%+)1)28 @ -2+7&3639+,@ 31192-8=@ 300)+) @ @#36/@ 300)+)

0 /$: 2+2% $: 63*)7736 @ 2+0-7, @ @ 37'3;@ -2+9-78-'@ 2-:)67-8= @ , @ 2-32@ 6%(9%8)@ ',330

+ 5**!: %% :)'896)6 @ 396-71@ @ 374-8%0-8= @ %4-30%2-@ 31192-8=@ 300)+) @ @ -((0)&96=@ 300)+) @ @);@#36/@ 2-:)67-8=

0!,$!*: &!3% 6 : 63*)7736 @ %8,)1%8-'7@ @ 31498)6 '-)2') @ @ #@ 832=@ 633/ @ , @ #@ 6%(9%8)@)28)6

!0!.: (+*! : ,-)*@ 300)+)@ %&36%836=@)',2-'-%2 @ 68 @ ',330@3*@ -79%0@ 687 @ @)%',)67@ 300)+) 3091&-%@ 2-:)67-8=

5: * %*% : 63*)7736 @ ,=7-'%0@ '-)2')7 @ 8):)27@)', @ @ , @ -6+-2-%@)',

.5: .%*+ : 300)+)@ %&36%836=@)',2-'-%2 @ 68 @ @ #@);@ %08>

1.!(: ./$ ((: 77-78%28@ 63*)7736 @ 396-71@ @ 374-8%0-8= @ 1)6732@ 300)+) @ @);@ ',330@*36@ 3'-%0@)7)%6',

1(%+: .0%*!6 : -+,)6@ (9'%8-32@ 773'-%8) @ 773'-%8)@ -6)'836 @ 9(+)8 @ %69',@ 300)+) @ @ 32%@ 300)+)

$!.!/ : /0.% **% : 77-78%28@ 63*)7736 @ 97-2)77 @ 8%8)@ 2-:)67-8=@3*@);@#36/@%8@ 2)328% @ (@);@#36/@ 2-:)67-8=

+ %*: 0$!3 : . : 77-78%28@83@ -+,)6@ (9'%8-32@ **-')6 263001)28@)+-786%6@ 336(-2%836 @ -2+7&3639+,@ 31192-8=@ 300)+) @ @ 300)+)@3* 8%8)2@ 70%2(

.0%*: 00$!3 :)'896)6 @ -7836= @ ,-03734,=@ @ 30-8-'%0 '-)2')77 @ %77%9@ 31192-8=@ 300)+) @ @ @ 9))27@ 300)+)

.! .% : 5!./+* : 63*)7736 @ 97-2)77 @);@#36/@ 2-:)67-8= @ @ @ , @ 8 @ 3,2 7@ 2-:)67-8=

% *!: !2%00 : 77-78%28@ 63*)7736 @ 967-2+ @ 31-2-'%2@ 300)+) @ @ 300)+)@3*@ 8%8)2@ 70%2(

.&+.%!: +*+1#$: 63*)7736 @ 967-2+ @ 8%8)@ 2-:)67-8=@3*@);@#36/@%8@ 3;278%8)@)(-'%0@)28)6 @ @);@#36/@ 2-:)67-8= (@)%',)67@ 300)+) @ 3091&-%@ 2-:)67-8=

4%*!: .2!5 :)'896)6 @ 97-2)77 @ ()04,-@ 2-:)67-8= @ @ 32+@ 70%2(@ 2-:)67-8=

.%!: +2!.* : 77-78%28@ 63*)7736 @ -303+-'%0@ '-)2')7 @ ()04,-@ 2-:)67-8= @ @ ()04,-@ 2-:)67-8= @ ,-0 #@ 6%(9%8)@)28)6 @ , @ #@ 6%(9%8)@)28)6

(!: !* : 77-78%28@83@ -+,)6@ (9'%8-32@ **-')6 @ 77-78%28@83@ -6)'836@3*@ :)2-2+@ 89(-)7@ @ '%()1-' ',)(90-2+ @ #@ -2+,%1832

5 *: %**!5 : 77-78%28@ 63*)7736 @ 31192-'%8-327@)6*361-2+@ 687 @ %-6*-)0(@ 2-:)67-8= @ @ %2@ -)+3@ 8%8)@ 2-:)67-8=

$+) /: *1/ : 77-78%28@ 63*)7736 @ 97-2)77 @ 37832@ 300)+) @ @)61328@ %;@ ',330

2%0 : 0$: 1.*!. : -+,)6@ (9'%8-32@ **-')6 @ -6)'836 @ 3:)621)28@)0%8-327 @ 2-:)67-8=@3*@ %0-*362-% @)6/)0)= @ @);@ ',330@*36@ 3'-%0@)7)%6',

!0.% !: $ 00!. : -+,)6@ (9'%8-32@ 77-78%28 @ 91%2)7396')7 @)2)*-87@ 4)'-%0-78 @)863430-8%2@ 300)+)@3*@);@#36/

!*!: 1%((* : 63*)7736 @ 2+0-7, @ 9))27@ 300)+) @ , @ #@ 6%(9%8)@)28)6

$.%/0%* : !5 : 77-78%28@ 63*)7736 @ 3 -6)'836 @ ,=7-'%0 ,)6%4-78@ 77-78%28@ 63+6%1 @ -303+-'%0@ '-)2')7 @ 9-22-4-%'@ 300)+) @ @ @ 3*786%@ 2-:)67-8=

*% !: !$() * 63*)7736 @ 68 @ @ 633/0=2@ 300)+)

#+.: !( )! 27869'836 @ %8,)1%8-'7@ @ 31498)6@ '-)2') @ -2+7&3639+,@ 31192-8=@ 300)+) @ @ -):@ 0)'86-'%0 2+-2))6-2+@ 278-898)@3*@ 31192-'%8-32 @ -): @ @ 3963 300)+)

!(%// : !. ! : -+,)6@ (9'%8-32@ 77-78%28 @ 6%27*)6@)6:-')7 336(-2%836 @ ,)@ -8=@ 300)+) @ @ (@ %69',@ 300)+)

.% : !&% / : -+,)6@ (9'%8-32@ 77-78%28 @ 77-78%28@83 -6)'836 @ 328-29-2+@ (9'%8-32@ 63+6%17 @ -2+7&3639+,@ 31192-8=@ 300)+) @ 633/0=2@ 300)+)

" !" ""

!2+*: %4+* : -+,)6@ (9'%8-32@ 77-78%28 @ (1-2-786%8-:)
4)'-%0-78 @ '%()1-'@ ',)(90-2+
@ -2+7&3639+,@ 31192-8=@ 300)+) @
@ @ 633/0=2@ 300)+)

!**%"!.: +! : 77-78%28@ 63*)7736 @ -&6%6=
@ #@);@ %08> @ @ 3091&-%@ 2-:)67-8=@ ',330@3*
3962%0-71 @ @ 9))27@ 300)+)

.% : +. '+ : 300)+)@ %&36%836=@)',2-'-%2 @ -303+-'%0
'-)2')7
@ -2+7&3639+,@ 31192-8=@ 300)+) @
@ %2@ %6'37@ 2-:)67-8=

3)!: 5 *%* 27869'836 @ %8,)1%8-'7@ @ 31498)6@ '-)2')
@ 362)00@ 2-:)67-8= @ @);@#36/@ 2-:)67-8=

4%)%((% *: (%2!. : -+,)6@ (9'%8-32@ 773'-%8) @
(1-77-327@ %2%+)6 @ 263001)28 (1-77-32@)6:-')7
@ #@ 0&%2=

0$!.%*!: (1 1))+ : 773'-%8)@ 63*)7736 @ 967-2+
@)6+)2@ 31192-8=@ 300)+) @ @!-00-%1
%88)6732@ 8%8)@ 300)+) @ @ 32+@ 70%2(@ 2-:)67-8=

0$!.%*!: ,!((+ : 773'-%8)@ 63*)7736 @ -7836= @ ,-03734,=@
30-8-'%0@ '-)2')7
@ /-(136)@ 300)+) @ @ , @);@#36/@ 2-:)67-8=

+ $%): ,,!*$!%) :)'896)6 @ 36)-+2@ %2+9%+)7
@ 362)00@ 2-:)67-8= @ @);@#36/@ 2-:)67-8=

.5: $!.!/ : .0%6 : 63*)7736 @ -303+-'%0@ '-)2')7
@!%+2)6@ 300)+) @ @ , @ 98+)67@ 2-:)67-8=

.5: 7 $! : -+,)6@ (9'%8-32@ 77-78%28 @ 263001)28
4)'-%0-78 @ 263001)28@ %2%+)1)28
@ 633/0=2@ 300)+)

*!00!: 7 1((%2 * : 77-78%28@ 63*)7736 @ 967-2+
@ 9))27&3639+,@ 31192-8=@ 300)+) @
@ 928)6@ 300)+) @ @ 3091&-%@ 2-:)67-8=J -5.257 -1.222 Td [(@)-28(#@)-28]TJ 0 0 0 1 k7 300-78%28 @ 263001)28

** : .+ 5' 773'-%8)@ 63*)7736 @ -7836= @ ,-03734,=@ 30-8-'%0@ '-)2')7
@ 928)6@ 300)+) @ @ , @ 3091&-%@ 2-:)67-8=

((: 1 %+ 77-78%28@ 63*)7736 @),%:-36%0@ '-)2')7@ @ 91%2)6:-')7
@ 37832@ 2-:)67-8= @ ! @ 928)6@ 300)+) @
! @ ()04,-@ 2-:)67-8=

+ !.0: 106)'896)6 @ %8,)1%8-'7@ @ 31498)6@ '-)2')
@ 633/0=2@ 300)+) @
, @!%7,-2+832@ 2-:)67-8=@-2@ 8 @ 39-7

* . :)+/ : -+,)6@ (9'%8-32@ **-')6 @ -6)'836 @ 300)+) -7'3:)6=@ 63+6%1
@ 928)6@ @ @ # @ , @ 6%2()-7@ 2-:)67-8=

.+(%* : / : -+,)6@ (9'%8-32@ 773'-%8) @ -6)'836@3* 328-29-2+@ (9'%8-32@ 63+6%17
@ 8 @ 3,2 7@ 2-:)67-8= @ @ ()04,-@ 2-:)67-8=

. 001.: ! 5 : 63*)7736 @ ,=7-'%0@ '-)2')7
@ @ @ 2-:)67-8= @
, @ 2(-%2@ 278-898)@3*@)',2303+= @ 31&%=

% . +: !,!00% : 77-78%28@ 63*)7736 @ -7836= @ ,-03734,=@ 30-8-'%0@ '-)2')7
@ 633/0=2@ 300)+) @ ,-0 @ #@ 6%(9%8)@)28)6

(%6 !0$: !5!/ : 77-78%28@83@ -+,)6@ (9'%8-32@ **-')6 -2%2'-%0@ -(@ (:-736
@ 633/0=2@ 300)+)

1/ *: % $. / : -+,)6@ (9'%8-32@ 77-78%28 @ '%()1-'@ (:-736 @ (:-7)1)28@)28)6
@)(+%6@ :)67@ 300)+)

$!%(: % #! : 77-78%28@83@ -+,)6@ (9'%8-32@ **-')6 @ @ 336(-2%836 @ 91%2@)7396')7
@ 928)6@ 300)+)

*#!(: %2!. -+,)6@ (9'%8-32@ **-')6 @ ,-)*@ -:)67-8=@ **-')6 @ 4)'-%0@ 77-78%28@83@8,)@ %&36)+%0@ **%-67@)7-+2))
@ 36(%1@ 2-:)67-8=

% $. : %2!. -+,)6@ (9'%8-32@ **-')6 @ -6)'836@
@ =6%'97)@ 2-:)67-8= @ @ 928)6@ 300)+) @ %69',@ 300)+)

.)!*: + .%#1!6 -+,)6@ (9'%8-32@ **-')6 @ -6)'836 '%()1-'@ 63+6%17
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? "
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(D1D9?>
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? ?" #!" !

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B545B93;U% U(3816)25B6A -')A ,%2')0036A3*A)+%0A **%-67
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$!! U$ U()) #U (! #
B U)?=RCU U"?B1<5C U%B5C945>D

) U ' *) U #) '
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$()$(U $""*#).U $!!
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'? ' ? ? " '"

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%E2<93U(165DI U 5@1BD=5>D
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d [(%fr.7443.%frr4 Td [(%E2<93U)-28($28(14=9)B105)] Td)Tj -27.561 r4 Td [(%E2<93
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?EBC5U 5C3B9@D9?>CU)B1F5<Ud [()C 2?>J 27.561 0 Td 1DB93E<1D3.C89@D9?>CU)]0 U
(*#.U)B1>C65BU%?<93I
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51>U?6U ?>D9>E9>7U 4E31D9?>
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"/,> ,54> > 52+78,04> 0./>!*/552>-56>
8/,>!*0,4*,7

5),68> > 0)),,> 0)6(6<> > ,+0(> ,48,6

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))
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(9>7<5U(D?@
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%50.1 0.48 k /GS1 gs /TT1 1 Tf -3 -2.133 Td 2026335CC 6(% 1023)]TJ 0 0 0 1 k /GS2 gs /TT0 1 Tf 3 -1.733 Td [(?==E>931<<1U)-T0

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